

Rule 5440 – Licensing Endorsements

Supplement A

Effective Date: August 2, 2013

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Administrator Endorsements

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QUALIFICATIONS FOR SPECIFIC ADMINISTRATOR ENDORSEMENTS

Applicants for the following administrator endorsements shall meet the qualifications set forth for the specific endorsement.

Assistant Director for Adult Education (5440-20)
Career and Technical Center Director (5440-92)
Director of Special Education (5440-86)
Principal (5440-91)
Superintendent (5440-90)
Supervisor (5440-75)

5440-20 Assistant Director for Adult Education (Revised 6/19/13)

The holder is authorized to design, implement, and administer educational and employment and training programs for adults in Vermont's career and technical centers.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for an Assistant Director for Adult Education endorsement, the candidate shall also demonstrate the following:

4. Three (3) or more years of experience in workforce development/training (e.g., human resources, employee training and development, career and technical education or counseling, management of a post-secondary continuing education program)
5. Principles of adult learning and knowledge of local, regional, state, and federal resources available to adult learners
6. The ability to conduct work force and community needs assessments (e.g., identify individual training needs for personal and/or professional growth, identify community needs)

5440-92 Career and Technical Center Director (Revised 6/19/13)

The holder is authorized to serve as Director of a Career and Technical Center. An educator serving as Assistant Career and Technical Center Director, however named, shall hold a Career and Technical Center Director endorsement.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for a Career and Technical Center Director endorsement, the candidate shall also demonstrate the following:

4. Three (3) or more years of experience in PK-16 teaching or workforce development/training (e.g., training management in business or industry, vocational training or counseling, management of a post-secondary continuing education program)
5. Two (2) or more years of employment experience in a career cluster , or the equivalent in documented experience working collaboratively with business and industry regarding matters of career and workforce development (e.g., serving on a chamber of commerce, or as a Workforce Investment Board member) not included in 1 above
6. Knowledge of local, state and federal laws related to career and technical education, labor, and industry

5440 - 93 Director of Curriculum (adopted 4/24/13)

The holder is authorized to coordinate the curriculum, instruction, assessment, and professional learning activities of a school district or supervisory union.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for a Director of Curriculum endorsement, the candidate shall also demonstrate the following:

4. Three or more years of PK-12 teaching experience
5. The ability to implement a comprehensive, developmentally appropriate, standards-based curriculum, instruction, and assessment program that includes the effective use of data that improves instructional practices and impacts student learning
6. The ability to support and facilitate sustained professional learning opportunities

5440-86 Director of Special Education (Revised 6/19/13)

The holder is authorized to provide, administer, supervise and evaluate special education programs and services, and to coordinate them with regular education programs, home-based services, and community-based services for students with disabilities. An educator serving as an Assistant Director of Special Education, however named, shall hold a Director of Special Education endorsement.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for a Director Special Education endorsement, the candidate shall also demonstrate the following:

4. Three or more years of experience as a special educator, educational speech language pathologist, school psychologist, school counselor, or reading coordinator/specialist
5. In-depth knowledge of local, state and federal laws and regulations concerning the education of students with disabilities
6. The ability to lead, develop, administer, and evaluate programs and services for students with disabilities including: screening; assessment; eligibility determination; development of IEPs; development and adaptation of educational materials, curricula, and instructional strategies; evaluation of student progress; and inclusion of students with disabilities into the regular classroom setting

5440-91 Principal (Revised 6/19/13)

The holder is authorized to serve as a School Principal. An educator serving as an Assistant Principal, however named, shall hold a Principal endorsement.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for a Principal endorsement, the candidate shall also demonstrate the following:

4. Three or more years of PK-12 teaching experience
5. Knowledge and application of school law, state regulations, and school board process to develop policies

5440-90 Superintendent (Revised 6/19/13)

The holder is authorized to serve as the chief executive officer of a school district. An educator serving as an Assistant Superintendent, however named, shall hold a Superintendent endorsement.

In order to qualify for an administrator endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Competence in the *Core Leadership Standards for Vermont Educators*
3. An Administrative Internship consisting of a minimum of 300 hours of supervised, substantive field experience in two or more types of school settings (see 5150 of the *Rules Governing the Licensing of Educators and the Preparation of Educational Professionals* for more information)

In order to qualify for a Superintendent endorsement, the candidate shall also demonstrate the following:

4. Five or more years of experience including:
 - a) three or more years of PK-12 teaching experience, and
 - b) two or more years of educational administration experience.

5440-75 Supervisor

The holder is authorized to supervise and evaluate instructional personnel and/or programs within the supervisor's specific area(s) of expertise.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

1. A Master's degree
2. Three or more years of PK-12 teaching experience.
3. The General Competencies for School District Administrators with the exception of those within #7 (Fiscal Planning and Budget Management) and #9.7 (School Construction).

GENERAL COMPETENCIES FOR SCHOOL DISTRICT ADMINISTRATORS

Applicants for administrator endorsements shall demonstrate the following knowledge and skills.

LEADERSHIP CATEGORIES

1) VISIONARY PLANNING

- 1.1 identifies the need for systemic change and can serve as an agent for that change
- 1.2 builds with others a shared vision of standards-based learning and teaching
- 1.3 understands strategic planning processes and involves others in strategic plan development
- 1.4 helps define and articulate the vision to the school community
- 1.5 collaborates with others to develop and implement a comprehensive action plan to improve student learning within the school and assesses student performance under the plan
- 1.6 uses individual student and systems data for continuous program improvement efforts including the development of a local action plan based on student performance and other indicators
- 1.7 develops and monitors long range plans for school and district technology and information systems
- 1.8 understands the nature of internal and external political systems and environments as they apply to schools and affect educational change
- 1.9 develops an effective and interactive community public relations program with multiple communications applications, including using and responding to electronic and printed news media
- 1.10 understands the impact of the quality components of the Equal Educational Opportunity Act of 1997 and subsequent amendments for systemic change to improve student learning

2) INTERPERSONAL SKILLS

- 2.1 understands and is responsive to needs of others
- 2.2 is articulate and clear in verbal and written communications

- 2.3 promotes and models effective communication skills
- 2.4 understands and effectively uses skills and strategies of problem solving, consensus building, conflict resolution, stress management, and crisis management
- 2.5 provides constructive feedback to others to further continuous improvement
- 2.6 models respect, understanding, sensitivity, and appreciation for all people and balances the rights of multiple and diverse groups
- 2.7 manifests and promotes professional ethics and values

3) **COLLABORATIVE SKILLS**

- 3.1 uses knowledge of motivational theory, group dynamics, process skills, organizational theory/management, and systemic change to create conditions for success for students, families, and staff
- 3.2 works with others to define problems, examine alternatives, and find solutions
- 3.3 demonstrates shared leadership practices and empowers others in fulfillment of school vision
- 3.4 models and encourages collaboration

4) **PARTNERSHIPS**

- 4.1 promotes and models effective collaboration and partnerships with parents, community, social service agencies, state agencies, higher education institutions, business, and industry to support student learning
- 4.2 evaluates partnerships for their impact on the school/district mission
- 4.3 understands the role of school/community relations and school governance in furthering the school/district vision
- 4.4 understands the role and relationship between school boards and school personnel
- 4.5 understands the value of school/community partnerships to maximize school resources
- 4.6 demonstrates ability to report student performance results and other pertinent school and community indicators cited in the Equal Educational Opportunity Act

of 1997 to the community in a manner that is easily understood by the general public

- 4.7 advocates for local, regional, and state educational policy for the advancement of Vermont learners

MANAGEMENT CATEGORIES

5) PERSONNEL

- 5.1 understands recruitment, selection, and maintenance of a qualified staff while attending to equity and diversity
- 5.2 understands the role and processes of licensure and relicensure including the roles and responsibilities of standards boards
- 5.3 understands staff utilization according to student achievement and development, best practices, efficiency, cost, and quality
- 5.4 understands labor relations, collaborative negotiations, and contract management
- 5.5 understands theories, principles, and best practices of staff supervision and evaluation and links supervision and evaluation to effective implementation of standards-based instruction and assessment
- 5.6 understands a variety of theories, principles, and best practices of professional development which will result in improved professional practice
- 5.7 understands the need for him/herself and other staff to reflect on practice, seek opinions from others, and apply the results to guide professional growth
- 5.8 understands a variety of theories, principles, and best practices for needs-based staff development programs that are connected to student standards and that will result in improved student learning consistent with the school/district vision and action plans

6) CURRICULUM, INSTRUCTION, AND ASSESSMENT

- 6.1 coordinates planning, implementation, and evaluation for the improvement of educational programs
- 6.2 coordinates standards-based curriculum efforts within and among schools

- 6.3 understands theories and principles of learning and human development from birth through adulthood
- 6.4 understands standards-based curriculum, instruction, and assessment; integrated curriculum; the use of student performance data; and understands their implications for curriculum development that results in improved student learning
- 6.5 understands multiple instructional strategies
- 6.6 accesses, uses, and conducts research
- 6.7 plans for coordination of multiple services for schools and students
- 6.8 understands diversity and its meaning for educational programs
- 6.9 develops a comprehensive system of education that will foster success for all students, including students with disabilities as well as gifted and talented students
- 6.10 demonstrates ability to plan and carry out a developmentally-appropriate, standards-based comprehensive assessment program that includes the effective use of results to improve student learning
- 6.11 understands how to report and use assessment results to inform the school community, develop school action plans, and modify school programs
- 6.12 uses technology, telecommunications, and information systems to enrich curriculum and instruction

7) **FISCAL PLANNING AND BUDGET MANAGEMENT**

- 7.1 demonstrates an understanding of school finance and resource planning including how to evaluate financial resources for effectiveness
- 7.2 applies knowledge of budget and fiscal planning and principles of management and accountability
- 7.3 demonstrates the ability to plan and manage resources according to school/district vision and action plans
- 7.4 understands and applies accounting principles in accordance with Governmental Generally Accepted Accounting Principles for State and Local Government (Governmental GAAP) and Handbook for Financial Accounting of Vermont School Systems (Handbook II) for sound fiscal management of school budgets and special accounts

- 7.5 understands the implications of labor relations, negotiations, and contracts on administration
- 7.6 applies and assesses current and future technologies for school management and business procedures

8) **EDUCATIONAL LAW**

- 8.1 applies principles of federal and Vermont school law, state regulations, and local school board policies to daily school situations
- 8.2 understands the intent and components of the Equal Educational Opportunity Act of 1997 and subsequent amendments

9) **SAFE AND EFFECTIVE LEARNING ENVIRONMENTS**

- 9.1 creates a learning atmosphere to encourage respect for self and others, positive social interaction, positive self and group esteem, and personal wellness
- 9.2 understands the need for and promotes freedom from discrimination in the school community
- 9.3 understands principles and issues of school safety and security
- 9.4 understands current technologies that support a safe and effective learning environment
- 9.5 understands principles and issues relating to school facilities and use of space
- 9.6 develops and administers policies that provide a safe school environment and promote student health and welfare
- 9.7 understands school construction and modification processes

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Vermont Agency of Education
Vermont Standards Board for Professional Educators

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5440-02 Art

The holder is authorized to teach art in grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of art and art education concepts and skills delineated in current national professional standards and in Vermont's *Framework of Standards and Learning Opportunities*, including:

The processes and stages of children's and/or adolescents' artistic and aesthetic development

The historical development and role of the visual arts in contemporary and past cultures and time periods

Art theory, including an understanding of the visual arts as a fundamental expression of human emotion and form of communication

Philosophies and methods of art education (e.g., Process Models of art education, Discipline-Based Art Education)

Principles, purposes, and design of assessments in the visual arts, including the concepts of critical response and self-assessment

The elements and principles of two and three dimensional design (line, shape, color, value, texture, space, form, balance, pattern, rhythm, dominance, contrast, and movement)

Expertise in one or more of the visual arts (i.e. architecture, crafts, drawing, painting, photography, printmaking, or sculpture), as demonstrated by presentation and exhibition of one's work

Basic command of a variety of arts media (clay, tempera, etc.), including an understanding of the different properties each possesses

Performance Standards:

Implements a visual arts curriculum that enables students to experience the beauty, emotional intensity, and thoughtfulness of art through making, studying, interpreting, and evaluating works of art. Specifically, the educator:

Creates an emotionally and physically safe environment where artistic risk-taking, self-exploration, collaboration, discovery, experimentation, problem solving, and reflection can take place

5440-02 Art (Cont'd)

Creates, selects, and adapts a variety of resources, materials, and technologies, that support students as they learn through and about art

Models the use of the vocabulary of the visual arts to describe and respond to works of art

Creates opportunities for students to learn tolerance and respect for others through instruction in the multicultural nature of art history

Uses a variety of appropriate methods, including student self-assessment, to assess students' artistic development, and uses assessment results to evaluate the effectiveness of one's teaching and curriculum

Adapts materials, tasks, etc. to ensure the full access of all students, including special needs students, to a rich visual arts education

Integrates classroom curricular themes with the art curriculum (early childhood/elementary)

Advocates for a rich visual arts education for all students at the earliest possible age

Additional Requirements:

A major in art, or the equivalent in undergraduate and/or graduate coursework

A minimum of a practicum, or the equivalent, in art education at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in art education at **both** the PK-6 and 7-12 instructional levels is required.

5440-39 Bilingual Education

The holder is authorized to teach students who are English Language Learners (ELLs) and/or native speakers of English, in a language other than English, as well as in English. This endorsement is an add-on endorsement only and is limited to holders of endorsements in early childhood, elementary education, middle grades, special education, English as a Second Language, science, social studies, mathematics, or English language arts. The holder's language(s) of concentration and instructional level shall be indicated on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Proficiency in a second language, including listening, speaking, reading and writing skills

Knowledge of the special problems and unique qualities for bilingual-multicultural education, including a respect for cultural diversity and a special sensitivity to the development of self-concept and special needs of children of different cultures, as well as knowledge of the history and culture of peoples associated with the students' dominant language

Knowledge of the differences between the sound systems, forms and structures of the second language and English, as well as knowledge of sociolinguistics and psycholinguistics necessary to understand the differences and commonalities between the two sound systems

Knowledge of how to assess students' language abilities and how to adapt instructional materials to meet students' needs and abilities

Performance Standards:

Ability to teach (contingent upon holding an endorsement in the subject area) subject matter in the students' dominant language, according to the students' needs and abilities

Ability to develop students' awareness of and appreciation for cultural diversity

Ability to assist students in maintaining and extending identification with and pride in their first culture, while at the same time facilitating learning to be successful in the dominant culture

Ability to assist students in maintaining and extending their command of their first language as well as the English language

Ability to involve students in the culture and history of their ancestry to help develop their understanding of the contribution of their cultural or ethnic group to American culture, history, and life style

5440-39 Bilingual Education (Cont'd)

Ability to identify cultural biases in existing curricula, materials, and/or teaching techniques and to modify these as appropriate

Ability to foster the relationship between families of bilingual students and the schools

Ability to stimulate community participation in the school program and to enhance sociocultural exchanges among all groups

5440-03 Business Education (Revised 4/15/09)

The holder is authorized to teach business education in grades 5-12 in middle and high schools.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of business education concepts and skills delineated in current national professional standards and in *Vermont's Career and Technical Business and Administration Program Competencies*, including:

The career development/planning process, occupational skills standards, workplace skills requirements, *Vermont's Career and Technical Knowledge and Skills*, recognized industry standards, and the relationship between work and learning as related to the foundations of business

The rationale for integrating student organization activities into the curriculum

Elements of effective business communication, deportment, and self-presentation

The learning principles as related to psychomotor skill development

Current and emerging business technology procedures and systems including e-commerce, appropriate keyboarding skills; word processing applications software, such as database, spreadsheet, graphics, desktop presentation, multimedia, imaging, and other emerging computer applications; and programming languages used in business

Generally Accepted Accounting Principles (GAAP) and practices (manual and computerized), as they apply to ownership, payroll, income taxation, and managerial systems

Economic systems and issues, including the role of exchange and money, consumer economic issues and concerns, and changing labor and career opportunities and their impact on the relevancy of classroom instruction

Business law, including the types of law affecting business, structure of the court system, and the legal impact of technology

Business management, including types of organizational structures and advantages and disadvantages of each; management principles and planning; and processes of analysis of business opportunities

Entrepreneurship, including traits of successful entrepreneurs

5440-03 Business Education (Cont'd)

Marketing and communication, including roles of each and their impact on individuals, business, and society

Finance and insurance, including concepts and purposes of money management, banking, insurance, and credit

The preparation and analysis of financial statements using manual and computerized systems, evaluation of organizational performance, and use of statistical analysis to interpret consumer and business data to solve problems

The role of competitive markets in the U.S. and other economies

The diagnosis and solution of problems in computer applications; operating systems and environments; utilities; and office procedures and management, including workflow, voice transcription, accessing references, and records management

Principles of financial decision making, budgeting, investing, taxes, financial services, and consumer economic purchasing

The development of business and marketing plans

Performance Standards:

Implements a comprehensive, standards-based business education curriculum that enables students to acquire the knowledge, skills, and attitudes that will prepare them to be successful in their personal financial lives and to prepare those students who seek further training in business. Specifically the educator:

Plans, delivers, and evaluates instruction based upon knowledge of the business and administration field, *The National Standards for Business Education*, and *Vermont's Career and Technical Business and Administration Program Competencies*, and student, community, and workforce needs

Teaches students to recognize and be sensitive to the cultural expectations of specific work sites

Effectively teaches youth leadership skills

Collaborates with colleagues, community, business/industry, and parents to maximize curricular and instructional resources

Plans, organizes and manages laboratories/technical facilities for instruction so that activities are carried out safely in accordance with state and national safety guidelines

5440-03 Business Education (Cont'd)

Teaches students how to communicate and present themselves in a manner appropriate to the business environment, and how to use technology to enhance the effectiveness and expediency of their communications

Identifies, compares, selects, evaluates, uses, installs, upgrades, and customizes application software for the business and administration program

Additional Requirements:

A supervised work experience using business and administrative skills through cooperative education, internship, or paid work experience

5440-17 Career and Technical Education (Revised 4/29/10)

The holder is authorized to teach one or more career cluster area courses of study in a career and technical center in grades 9-12 as specified on the endorsement.

In order to qualify for this endorsement, a candidate must demonstrate the following:

Core Knowledge Standards:

Demonstrates knowledge of how to plan, deliver, and evaluate instruction based upon knowledge of Vermont's Framework of Standards and Grade Level Expectations; Career and Technical Student Organization standards; Vermont's Career and Technical knowledge and skills competencies; and student, community and workforce needs, including industry standards and procedures. Specifically, the educator understands:

The legal and ethical requirements and safety issues pertaining to the specific trade or industry

Career and technical education curriculum and assessment strategies and instructional methods that enable integration, via applied learning opportunities and activities, of Vermont's standards and Grade Level Expectations with the industrial skills necessary for success in the specific career cluster area of study

Equity issues in career and technical education including occupational stereotypes and strategies to break down barriers to opportunities for male and female students in non-traditional occupations

Skills, techniques, and procedures for effectively integrating students with special needs in career and technical education settings

The career development/planning process and how to integrate employability skills into the curriculum

The significant role in career and technical education of partnerships and collaborative relationships with industry, organized labor, parents, community agencies, and post-secondary institutions in delivering the curriculum, and how to form advisory committees that include these parties

How to foster the development of students' leadership skills through delivery of the curriculum, and incorporation of appropriate career and technical student organization standards into the curriculum

Core Performance Standards:

5440-17 Career and Technical Education (Cont'd)

The educator implements a comprehensive, standards-based curriculum that incorporates industry skill standards and enables students to acquire the knowledge, skills, and attitudes that will prepare them to succeed in the chosen trade or industry. Specifically, the educator:

Integrates the teaching of Vermont's standards and Grade Level Expectations throughout all instructional activities

Creates instructional activities that provide students with the knowledge and skills to successfully complete the program of study assessments within the particular trade or industry

Collaborates with the Career and Technical Education Special Needs Coordinator to effectively integrate students with special needs into his/her classroom and to meet each student's individual learning needs

Consults with industry advisory committees, colleagues, the community, and parents to maximize curricular and instructional resources, and develops experiential learning opportunities for students

Plans, organizes, and manages laboratories/technical facilities for instruction so that activities are carried out in accordance with state and national safety guidelines and in compliance with all local, state, and federal regulatory codes governing the trade or industry

Demonstrates sensitivity to inequities in technical education learning and career opportunities by incorporating specific instructional activities that promote equity

Fosters the development of students' leadership, teamwork, and effective communication skills, and teaches deportment in a manner appropriate to the industry

Advises students in the career planning process and teaches employability skills as indicated in the program core competencies developed by industry and education

Additional Requirements:

To qualify for the Apprenticeship License, the individual must:

1. Hold a high school diploma, or the equivalent, and have 6 years of work experience in the career cluster field, OR
Hold an associate's degree in any field, or the equivalent, and have 4 years of work experience in the career cluster field.

(Possession of one or more of the industry credentials/certifications offered in the program that the person will teach may be substituted for the required years of work experience.)

5440-17 Career and Technical Education (Cont'd)

To qualify to apply for a Level I License, the Apprenticeship License holder must:

1. Successfully complete the Career and Technical Teacher Education Program, including development and review of a culminating portfolio, AND
2. Complete the requirements for an associate's degree, or the equivalent

To qualify to apply directly for a Level I License, the individual must:

1. Hold an associate's degree in any field, or the equivalent, AND
2. Complete an educator preparation program in the career cluster field, or qualify for licensure in the career cluster field through Transcript Review or Peer Review (a minimum of a bachelor's degree is required for Peer Review), AND
3. Have 2 years of work experience in the career cluster field

(Possession of one or more of the industry credentials/certifications offered in the program that the person will teach may be substituted for the required years of work experience.)

5440-73 Career and Technical Education School Counseling Coordinator (Revised 8/19/11)

The holder is authorized to coordinate and provide career and technical education school counseling services in grades 9-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Knowledge of school counseling and career and technical education concepts and skills delineated in current national professional standards and personal development concepts and skills reflected in *Vermont's Framework of Standards and Learning Opportunities*. Specifically, the Career and Technical Education School Counseling Coordinator understands:

Human Development:

Human psychological development, including the typical progression of childhood through adult growth and development within each domain and age-appropriate indicators of social and emotional well-being for each stage of development

Counseling:

Principles, theories, and techniques of individual, group, and family counseling, including how to modify counseling practices to accommodate students with special needs

The student as the primary client

Indicators of serious social and emotional issues related to healthy development (such as self-mutilation, eating disorders, bullying, harassment, grief, trauma, etc....), including their impact on students, families, peers, schools, and community systems, and when and to whom to refer students and their families for more intensive interventions

Conflict mediation and conflict resolution strategies

Appropriate de-escalation techniques, and emergency crisis intervention procedures, services, and requirements within and outside the school district

Career Exploration and Transitions to Post- Secondary Education and Work:

Career development theories and practices strategies for guiding students to explore career and lifestyle choices, and decision-making skills relative to education and work

The requirements of various occupations, labor force needs, and educational, training, and placement resources available to support students' choices

5440-73 Career and Technical Education School Counseling Coordinator (Cont'd)

The goals of career and technical education, changes in technology and the impact of these changes on learning and work

State and federal regulations pertaining to eligibility for a variety of career and technical education programs and the requirements of different programs

Professional Issues:

Professional and ethical issues in school counseling

Legal aspects of counseling and school law as they relate to counselors and the counselor's role within the educational system

Assessment:

Appropriate interpretation of a variety of educational and psychological assessment data, including administration and interpretation of student interest and aptitude inventories

Consultation and Collaboration:

Schools as systems

Processes of social and cultural change with respect to various cultural differences and protected categories.

How to work cooperatively and respectfully with all families to support students' learning and Development

Principles and practices of effective collaboration and consultation in learning environments

The school counselor's roles and responsibilities relative to the development and implementation of educational plans for students

Performance Standards:

Career and Technical Education School Counseling Coordinators strengthen and facilitate the educational process by providing continuity of care to students in CTE programs; individual and/or group counseling or emergency assistance to students in need; outreach to prospective students about CTE programs, and career guidance to current CTE students. They also collaborate with other school personnel to promote a healthy learning environment for students and staff. Specifically, the CTE School counseling Coordinator:

Counseling:

5440-73 Career and Technical Education School Counseling Coordinator (Cont'd)

Identifies, in collaboration with teachers and parents, problems that may be interfering with the learning and healthy development of individual students and that may require counseling interventions

Facilitates the student's self-awareness, self-understanding, self-advocacy, and behavioral change, as they relate to school adjustment and performance

Collaborates with the Career and Technical Center Director to develop and implement an emergency crisis intervention plan which includes police, community, public safety, and emergency response personnel

Uses de-escalation techniques with students in danger of hurting themselves and/or others

Provides responsive counseling to individuals and groups of students to assist them in dealing with personal, social, developmental, and educational issues

Career Exploration and Transitions to Post- Secondary Education and Work:

Recruits students to participate in CTE programs, including developing and disseminating information about the Center and its services to the community, and organizing career awareness, orientation and other programs for students contemplating CTE enrollment

Guides students in career and higher education exploration and decision-making, including explaining the requirements and opportunities within various occupations and helping students to define their occupational goals and plans

Follows-up on the status of program graduates in order to inform CTE Center improvement efforts

Assessment:

Assists students, parents, and teachers to understand the results of psychological, educational, and interest/aptitude assessments in order to support students in making effective personal, educational, social, and career decisions

Consultation and Collaboration:

Provides continuity of care to students receiving mental health services at their sending schools

Provides support to teachers and other school personnel regarding students' behavioral and mental health issues

5440-73 Career and Technical Education School Counseling Coordinator (Cont'd)

Serves as a liaison between teachers, parents, support personnel, schools, and community resources to facilitate successful student development

Coordinates with school counselors at the sending schools to ensure that CTE students meet all graduation and other requirements in a timely manner

Participates on a variety of teams supporting individual students

Collaborates with school and community personnel to ensure that the school environment and program are physically and psychologically safe and health-promoting for all students and staff

Works with all students and their families in ways that respect diverse backgrounds and interests

Makes referrals to other professionals, as appropriate

Additional Requirements:

Master's degree, with a concentration in school counseling or the equivalent

A supervised internship experience (600 clock hours) in counseling with a minimum of 60 hours of experience in school counseling at the middle/secondary level (7-12), under the supervision of a licensed school counselor or CTE School Counseling Coordinator

Two years of work experience outside of the area of education

5440-87 Career and Technical Education Special Needs Coordinator (Revised 4/29/10)

The holder is authorized to provide academic support services, to conduct basic academic skill assessments, to coordinate educational support services with the sending schools, and to assist IEP teams with the determination of appropriate placements in Career and Technical Education programs for individuals from special populations, as that term is defined in federal regulations pertaining to special education eligibility, who are or will be enrolled in Career and Technical Education programs.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of adolescent development, including the implications of a variety of delays, disorders, and disabling conditions on learning and development; appropriate procedures and strategies for identifying the needs and supporting the learning of individuals with special needs in career and technical education settings; and procedural, consultation/collaboration, and case management knowledge and skills essential to implementation of an effective educational support program in a career and technical education setting. Specifically, the educator understands:

Foundations:

Typical and atypical early adolescent through adult development within each domain, including the wide variation in how individuals learn and typically develop, and the variety of economic, social, and cultural influences which affect each student's life

The interaction of primary language, culture, and familial background with an individual's special needs

The key roles of the special educator as teacher, advocate, consultant, facilitator, and collaborator within the educational support system

The philosophical, ethical, historical, and legal foundations of special education, including the evolution of key litigation, legislation, and regulations affecting special education

Current models and theories that form the basis of special education practice

Current state and federal laws, regulations, and procedures governing referral; identification/evaluation; eligibility determination; and Individual Education Program (IEP) development, implementation, and monitoring

Current state and federal laws, regulations, and procedures governing career and technical education, including the eligibility determination, placement and education of students who are defined as members of special populations in career and technical education settings

5440-87 Career and Technical Education Special Needs Coordinator (Cont'd)

The physical and cognitive requirements for participation in a variety of career and technical education programs

Changing workforce requirements, employability skills, and transition planning procedures and issues for individuals with special needs in career and technical education settings

Professional and ethical standards of practice

Program Development, Consultation, and Collaboration:

Characteristics, processes, and roles associated with effective collaboration, teaming, consultation, facilitation, and communication within school, family, and community systems

Family systems theory and principles of family-centered practice, including how to work cooperatively and respectfully with all families to support adolescents' learning and development

Strategies for effective group facilitation and leadership

Local, state, and community resources, service delivery systems, and systems of care available to support students and their families

The different roles of the various specialized therapeutic service providers (e.g., OT's, PT's, SLPs) available to support students with disabilities

Roles and responsibilities of paraeducators and their supervision

Assessment:

The comprehensive evaluation process, including legal aspects, appropriate procedures, and principles of non-discriminatory evaluation

Selection, administration, and interpretation of data from various forms of assessment, and interpretation of reports from specialized service providers

Measurement theory and practice, including issues of validity, reliability, norming, and bias

How to enable the participation of students with disabilities in all local and statewide assessments, including career and technical education assessments, through accommodation and/or alternative assessment methods

Disabilities, Specialized Instruction, and Interventions:

5440-87 Career and Technical Education Special Needs Coordinator (Cont'd)

Characteristics of the disabilities stipulated in state law, and impacts of these disabilities on an individual's educational performance

A wide variety of developmentally-appropriate, research-based specialized curricula, instructional practices, and curriculum-based assessments to enable students with disabilities to progress in the general education curriculum

Strategies for proactive and nonaversive behavior management

Foundations of Basic Skill Areas:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the impact of physical, emotional, and cultural factors on language development and the acquisition of reading and writing; role of metacognition in language and literacy development; elements of effective, age-appropriate verbal and non-verbal communication

Language and Word Study – The purposes of language; the phonemic, morphemic, semantic, syntactic, and pragmatic systems of language and their relationship to the reading and writing process; the pronunciation of English phonemes and their graphemes; the developmental progression of phonological awareness; vocabulary development and its relationship to literacy acquisition; the developmental stages of spelling and morphological analysis

Second Language Issues – The process of second language acquisition, challenges second language issues pose to student reading and writing development, and distinctions between language learning issues and learning disabilities

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency

Written Expression – The continuum of writing development; the composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios, and benchmarks and standards for various ages/grade levels

Numeracy – The continuum of development of mathematical thinking, particularly in the areas of mathematical quantification, calculation, and reasoning

Behavior – Typical and atypical social/emotional, psychological, and cognitive development as they relate to behavioral development

5440-87 Career and Technical Education Special Needs Coordinator (Cont'd)

Motor Skills – Typical and atypical sensory and motor development; functioning issues associated with various common disabling conditions; relationship of sensory and motor functioning to learning, classroom behaviors, and demonstration of competence in academic and non-academic tasks

Performance Standards:

Working in collaboration with teachers from the sending school, parents/caregivers, the student, and other professional and paraprofessional personnel, the Career and Technical Education Special Needs Coordinator coordinates the educational and vocational program of each student with special needs who is pursuing training or education in a Career and Technical Education course of study. Specifically, the educator:

Foundations:

Advocates for the rights and individual needs of each student with special needs in a career and technical education setting and for an effective, comprehensive system of support services for all students

Adheres to ethical and professional standards, and state and federal requirements pertaining to the education of students identified as having special needs

Program Development, Consultation, and Collaboration:

Assists the IEP Team to determine appropriate placements in career and technical education programs and cooperative settings for each student on an individualized education plan

Assists career and technical education teachers to adapt or modify instructional materials or activities or aspects of the applied learning environment to meet the individual needs of each student with special needs

Coordinates the delivery of IEP services for students with special needs in career and technical education settings

Assessment:

Assesses students' current functioning in the basic skills areas, and interprets assessment information for the purposes of developing individualized programs for each career and technical education student with special needs

Interprets comprehensive evaluation data, including reports from specialized service providers, for career and technical education teachers in order to assist them in meeting the needs of their students with special needs

5440-87 Career and Technical Education Special Needs Coordinator (Cont'd)

Specialized Instruction and Interventions:

Supports students to access and benefit from the career and technical education curriculum through specialized instruction and related services

Based on assessment data, selects and implements interventions and accommodations appropriate to individual student needs

Integrates the various specialized therapeutic services into the career and technical education setting if necessary

Monitors and assesses the efficacy of instruction based on ongoing observation and data collection, makes adjustments to the students' learning plans based on these assessments, and provides support and feedback to classroom teachers to adjust their practice

Creates and/or modifies learning environments and interactions in order to promote self-directed learning, self-confidence, socialization, and academic achievement of students with special needs

Develops and implements systemic and proactive procedures that address problem behavior at the building, classroom, and individual student levels

Uses strategies to promote maintenance and generalization of students' knowledge and skills across settings

Supports the effective transition of career and technical education students with special needs into the world of work and/or post-secondary education or training

Additional Requirements:

A minimum of 21 credits in special education

A minimum of a practicum, or the equivalent, in special education at the middle/secondary (grade 7-age 21) instructional level A practicum is defined as a minimum of 60 hours of supervised field experience.

A minimum of two years of teaching experience in special education or career and technical education

5440-14 Computer Science

The holder is authorized to teach computer science in grades 7-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of essential computer science concepts and skills, including:

Program and algorithm design; data structures; object-oriented program design; and high-level languages

Computer hardware architecture

Programming languages, including the definition and structure of languages and comparison of existing high-level languages

Fluency in at least two high-level languages used in current pedagogy

The function, application, capabilities, and limitations of computers

The social and ethical implications of computers and their related technology

The mathematical principles which are the basis of many computer applications, including algebra, set theory, coordinate systems and graphs, matrices, and probability and statistics

The concepts, vocabulary, and issues found in two or more of the sub-disciplines of computer science (including but not limited to: computer architecture, artificial intelligence, data and knowledge bases, ethics, graphics, human-computer interaction, networks and data communication, programming languages, and software engineering)

The specification, design, implementation, testing, modification, and debugging of software

Performance Standards:

Implements an inquiry-based computer science curriculum that integrates conceptual understanding and skill development. Specifically, the educator:

Designs and implements instructional activities for students that reinforce the topics, concepts, and skills central to computer science (listed above)

Develops appropriate assessment criteria for student-developed software based on software quality attributes (e.g., reusability, maintainability, testability, etc.)

5440-14 Computer Science (Cont'd)

Designs and implements activities which reinforce verbal and written technical communication skills

Recognizes and supports creative and alternative solutions

5440-85 Consulting Teacher

The holder is authorized to provide comprehensive special education services, in any public education setting, to students in grades K-8 and/or grade 7 through age 21, as specified on the endorsement, and to provide leadership in the implementation of best practices in special education. The holder may provide instruction to students who are visually impaired, Deaf, or who have intensive special needs, as those terms are defined in federal regulations pertaining to special education eligibility, in consultation with a Teacher of the Blind and Visually Impaired, Teacher of the Deaf and Hard of Hearing, or Intensive Special Education Teacher.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

The Consulting Teacher must be eligible to hold the Special Educator endorsement through demonstration of each of the knowledge and performance standards required for that endorsement. In addition, the Consulting Teacher understands concepts and demonstrates skills essential to leadership in special education, including:

Knowledge Standards:

Program Development, Consultation, and Collaboration:

The design and delivery of effective training programs to educational staff and parents

Performance Standards:

Program Development, Consultation, and Collaboration:

Demonstrates collaborative and consultative skills in a variety of settings, including IEP planning and development, implementation of the comprehensive evaluation process, and communication with appropriate personnel regarding planning and delivery of instruction and accommodations

Designs materials, programs, and environments in consultation with the classroom teacher and/or appropriate teams, to enable students to progress in the general education curriculum

Provides systematic training for special educators and other school personnel in specialized instructional techniques and methodologies

Assessment:

Provides professional and technical assistance to the special educator in the comprehensive evaluation process

Additional Requirements:

5440-85 Consulting Teacher (Cont'd)

Master's degree, in special education or the equivalent

Two years of teaching experience

A minimum of a practicum, or the equivalent, in special education at the elementary/middle (grades K-8) or middle/secondary (grade 7-age 21) instructional level, depending on the authorization sought. For the full K-age 21 authorization, a minimum of a practicum, or the equivalent, in special education at **both** the elementary/middle (grades K-8) and middle/secondary (grade 7-age 21) instructional levels is required.

5440-60 Cooperative Career and Technical Education Coordinator

The holder is authorized to establish and coordinate experiential learning opportunities between industry and other community employers and secondary institutions in order to reinforce a student's program of study, career interests, and goals.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Knowledge of the principles and practices useful for developing and implementing a cooperative vocational experience program, including knowledge of the world of work

Knowledge of state and federal regulations associated with vocational education and labor and industry

Performance Standards:

Ability to plan, implement, and evaluate a successful cooperative vocational experience program including the ability to:

- a) Survey local business and industry and develop a good working relationship between the school and the business community,
- b) Identify safe and appropriate opportunities for student placement in the community,
- c) Coordinate an effective cooperative vocational experience program including conducting orientation, matching of and scheduling of students with appropriate work sites, and maintaining student records related to the cooperative vocational experience,
- d) Form an advisory committee of community members to develop placement opportunities,
- e) Work effectively with employers to develop suitable training programs for students seeking cooperative vocational experience,
- f) Assist both students and the employer during the training experience including providing information from regular observations at the training site and conferences with the student and employer, and
- g) Evaluate the cooperative vocational education program through maintenance of contact with program graduates and the business/industrial community

Additional Requirements:

Two years of recent work experience outside of the field of education

5440-38 Dance

The holder is authorized to teach dance in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Understanding and appreciation of dance in contemporary and past cultures in both western and non-western societies, including:

- a. knowledge of various types of dance, including ballet, ballroom, ethnic, folk, jazz, and modern
- b. knowledge of dance history and philosophy, including geographic and cultural influences
- c. knowledge of the essential elements of stagecraft, dance accompaniment, and music
- d. knowledge of basic dance writing and notation

Knowledge of aesthetic theory, including an awareness of dance as a fundamental expression of human communication and emotion

Knowledge of:

- a. the vocabulary of dance, the elements of time, space, and energy and their use in the making of a dance as well as knowledge of the creative process with specific application through improvisation in dance
- b. basic anatomy, the principles of kinetics, nutrition, and healthful body maintenance practices

Concentrated study of techniques resulting in in-depth mastery of at least one dance style, as well as experience in performing and staging

Knowledge of developmental stages of children and how to apply appropriate teaching methods to help children perceive and express themselves and interpret their thoughts and feelings through a medium in the performing arts and to appreciate the role of the performing arts in their lives

An understanding of the divergent approaches essential to fostering the creative process

Performance Standards:

5440-38 Dance (Cont'd)

Ability to motivate students and develop their appreciation of dance

Ability to do the following:

- a. teach the elements of dance
- b. select appropriate dance materials to meet the motor skill development needs of students
- c. choreograph and select appropriate materials and theatrical accompaniments to relate to dance performances
- d. demonstrate and teach a variety of dance styles

Ability to develop students' unique capabilities through teaching the basic principles of music, dance, or drama, and through rigorous practice in that medium

Ability to arrange and adapt the curriculum and experience to meet the needs and abilities of students

Additional Requirements:

Experience with teaching a performing art to individuals, small groups, and larger groups

5440-10 Design and Technology Education (Revised 4/15/09)

The holder is authorized to teach design and technology education in grades 5-12 in middle and high schools.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of technology education concepts and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities* including:

Development of Technological Thinking: Typical misconceptions or naïve ideas about technology held by early to late adolescents

Foundations: Applications of design and engineering processes to the solution of problems; the evolution of technology, including the historical relationships of science, mathematics, and technology; social, economic, cultural, and political roles and responsibilities of scientists, engineers, and technologists

Technology Content Areas: Systemic understanding of the applications of technology in various areas including communications, construction, manufacturing, transportation, energy, health, and biotechnology; working knowledge of a variety of tools and machines and their proper uses and applications in designing and making solutions; properties and nature of a variety of natural and synthetic materials and their appropriate applications; processes involved in the extraction, distribution, processing, and disposal of natural resources

Outputs and Impacts: Ethical and practical issues related to control of the outputs and impacts of our expanding technological activities in sectors such as: communications, construction, manufacturing, power and transportation, energy, health technology, and biotechnology

Performance Standards:

Implements an inquiry-based technology education curriculum that integrates technology education problem solving skills with content, and enables development of the habits of mind that support technological inquiry. Specifically, the educator:

Models the skills and attitudes of technological problem solving

Designs and implements investigations and assessments that engage students in problem solving activities in which they design and construct models that demonstrate solutions to particular problems

5440-10 Design and Technology Education (Cont'd)

Provides students with frequent interactions with the real world as a regular part of the technology education program

Creates opportunities for students to develop and demonstrate leadership, communication, and teamwork skills by working collaboratively to design solutions and to present and discuss them with a variety of audiences

Teaches students how to be responsible consumers of technology, including understanding the positive and negative consequences of individual and societal choices

Organizes equipment, work, and learning spaces so that technological investigations are carried out in accordance with state and national safety guidelines

Anticipates and elicits the naïve ideas, emerging concepts, and/or misconceptions that students are likely to have prior to instruction

Models and explicitly teaches forms of technical communication, including how to read sources of technical information and how to write clear, well-organized technical reports

Integrates physical, mathematical, scientific, and technological tools appropriate to students' ages and abilities in order to facilitate technological inquiry and problem solving

Conveys to students how the development of technology and technological theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of "old" knowledge

Conveys to students the roles and responsibilities of scientists, engineers, and technologists with respect to social, economic, cultural and political systems, and provides them with opportunities to actively explore the full scope of career choices available to people in the field of technology

Demonstrates sensitivity to inequities in technology education teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

An experience (paid or unpaid) applying design and engineering processes to the solution of a problem, including the manipulation of materials to make and test a prototype

5440-30 Driver and Traffic Safety Education (Revised 4/29/10)

The holder is authorized to teach driver and traffic safety education in grades 9-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

The educator demonstrates a thorough knowledge of:

1. In-vehicle instructional techniques
2. The zone control system of driving, general traffic safety, and emergency driving techniques
3. Traffic safety education, including methods and materials for teaching driver and traffic safety education, administration of a driver and traffic safety education program, vehicular law, and insurance and financial responsibility
4. Alcohol and drugs
 - a. the impact of alcohol and other drugs on the operation of a motor vehicle
 - b. recognition of impairment by alcohol and other drugs
5. An area of the behavioral sciences such as educational psychology, adolescent psychology, or human development

Performance Standards:

Specifically, the educator:

1. Provides students with positive attitudes toward safe driving with special emphasis on having students understand the serious responsibilities associated with safely operating a motor vehicle
2. Provides students with the necessary skills to drive safely
3. Plans, organizes, implements, and evaluates a driver and traffic safety education program, including procuring vehicles, performing the necessary recordkeeping, and carrying out other administrative duties associated with driver education
4. Models for students, at all times, a high level of self-driving performance
5. Maintains effective public relations with the community, including remaining aware of community needs and making the community aware of the need for driver education

5440-30 Driver and Traffic Safety Education (Cont.)

A driver education endorsement limited to behind-the-wheel instruction only shall be issued to individuals who meet Knowledge Standards 1, 2, and 4b and Performance Standards 1, 2 and 4, as well as the Additional Requirements below.

Additional Requirements:

--Possess a valid Vermont Motor Vehicles Operator's license, or a valid operator's license from an adjacent state, provided the person is a legal resident of that state, with at least five years of driving experience while holding a driver's license

--Have and maintain a model driving safety record defined as:

- 1) no more than one moving motor vehicle traffic violation conviction within the preceding one year period
- 2) no more than three moving motor vehicle traffic violation convictions within the preceding three years
- 3) no driver's license suspension or revocation within the preceding three years for the above (1 & 2) convictions
- 4) no driver's license suspension or revocation within the preceding five years for motor vehicle convictions other than those above (1 & 2)
- 5) no motor vehicle criminal violation convictions within the preceding seven years. These would include, but not be limited to, operating a motor vehicle under the influence of intoxicating liquor or other substance or negligent operation of a motor vehicle.

--Provide a letter stating approval to proceed with licensure from the VT Department of Education Driver Education Consultant. This approval will certify the model driving record and shall state whether the individual is being recommended for the full endorsement or the endorsement limited to in-vehicle instruction only.

5440-36 Early Childhood Education (Revised 12/17/12)

The holder is authorized to teach young children birth through pre-K, grades K through three, or birth through grade three, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate that he/she meets the knowledge and performance standards for professional knowledge of early childhood education, as well as the knowledge and performance standards for the four core content areas as follows:

Knowledge Standards – Professional Knowledge:

Demonstrates a thorough understanding of the developmental nature and needs of young children from the prenatal stage through middle childhood, and of ways to organize, implement, and evaluate curriculum and instruction; structure learning environments; and collaborate with families and community organizations to maximize young children's learning and development. Specifically, the educator understands:

The progression of prenatal through middle childhood growth and development within each domain (i.e. cognitive, linguistic, social, physical, and emotional), including:

- The broad theories of child development
- The wide variation in how young children learn and typically develop
- The characteristics and signs of atypical development in young children and the challenges these present to learning and development
- The importance of sensory exploration and play to infants', toddlers', and young children's cognitive, motor, perceptual, linguistic, and social development
- The role of biological, genetic, environmental, and cultural factors in children's development and their impact on exceptionalities
- The importance of secure, responsive relationships and consistency of caregivers to young children's learning and healthy development, including the importance of attachment as a primary marker of healthy development of infants and toddlers
- The role of families as the primary context for young children's development, including the importance of parents' expectations for their children, and how young children's development is affected by and affects parents, siblings, and extended family

Family systems theory and principles of family-centered practice, including how to work cooperatively and respectfully with all families to support children's learning and development

5440-36 Early Childhood Education (Cont'd)

Resources and programs available in the community for the support of young children and their families

Vermont's learning expectations for all children as delineated in current state standards for students and the articulation of those standards for infants, toddlers, and young children

Curricular design and instructional strategies that build upon children's play and curiosity and engage the unique intellectual and psychosocial nature and needs of young children

Appropriate strategies for assessing young children's learning and development

Music, drama, and the visual arts as expressions of human emotion and culture, powerful forms of communication, and vehicles for enhancing learning opportunities across the curriculum

The importance of physical and psychological environments on young children's growth and development and ways to organize learning environments and orchestrate interactions in order to promote young children's holistic development

Health and safety issues, including procedures regarding disease and accident prevention, hygiene, and first aid; the signs of emotional stress, harassment, child abuse, and neglect in young children; and state and federal laws and regulations pertaining to early childhood educators and programs

Performance Standards – Professional Knowledge:

Early childhood educators draw upon their knowledge of child development and learning theory; the interests, needs, and backgrounds of their children; their relationships with children's families; and their knowledge of subject matter, integrated curriculum, and appropriate assessment to design and implement developmentally and individually appropriate learning experiences that enable children to explore challenging concepts and develop essential foundational skills in purposeful and engaging ways. Specifically, the educator:

Demonstrates respect for children's diverse family structures, values, and traditions

Collaborates with parents/caregivers, school, and community personnel to enhance children's learning, growth, and development, including planning and facilitating collaborative conferences and educational programs and helping families to secure appropriate services

Develops an integrated curriculum that grows out of children's interests and questions, incorporates skills and concepts from across the language arts, mathematics, science, social studies, and the arts, reflects culturally valued content and children's home experiences, and addresses all the developmental domains

5440-36 Early Childhood Education (Cont'd)

Implements curriculum using a variety of learning strategies, including play-based and teacher-directed approaches, in order to meet the needs of all young children

Responds to and follows children's leads, including recognizing and supporting child-initiated play both indoors and outdoors and developing activities to incorporate and extend their individual interests

Integrates the performing and visual arts within the curriculum and facilitates and encourages children's creative expression through a variety of media

Employs a variety of methods to systematically observe, record, monitor, and document young children's activities and behavior for the purpose of planning appropriate and individualized programs, environments, and interactions

Participates with other professionals in developing and implementing individualized service and educational plans for young children with disabilities and ensures that assessments are family sensitive

Complies with state and federal legal and regulatory requirements pertaining to early childhood educators and programs

Plans indoor and outdoor environments that are safe, stimulating, engaging, and intentionally designed to support curricular goals

Anticipates conflicts and orchestrates activities and interactions to promote the prosocial development of young children in the areas of self-awareness, personal responsibility, and respect for self and others, including explicitly modeling how to engage in equitable and respectful conversation and behavior

Implements appropriate hygiene and nutrition procedures and practices, and models the skills essential to healthy choice making

Creates a welcoming environment, including establishing routines to inform parents about their child's day and to assist parents to separate and reunite with their child

Designs and evaluates processes that support children's transitions among and across programs and settings

Knowledge Standards – English Language Arts, Mathematics, Social Studies, and Science:

English Language Arts

5440-36 Early Childhood Education (Cont'd)

Demonstrates knowledge of research-based principles and processes underlying literacy development, and the components of effective early literacy instruction, as delineated in current national professional standards and reflected in *Vermont's Framework of Standards and Learning Opportunities*. Specifically, the educator understands and/or knows:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the development of emergent and early literacy, including the ways in which creative and active early learning environments provide opportunities for establishing the foundations of literacy; the impact of physical, emotional, and cultural factors on language development and acquisition of reading and writing; role of metacognition in language and literacy development; the elements of effective verbal and non-verbal communication

Literature and Media – A wide variety of quality, age-appropriate literature across genres, eras, cultures, and subcultures; literary elements and strategies for textual analysis

Language and Word Study – The purposes of language and approaches to analyzing language; the pronunciation of English phonemes and their graphemes; the developmental progression of phonological awareness; vocabulary development and its relationship to literacy acquisition; the developmental stages of spelling and morphological analysis

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, including typical features of beginner texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency of beginning and developing readers

Written Expression – Writing as symbolic representation and the stages of early writing development, including drawing; the composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios and benchmarks and standards for various age/grade levels

Assessment and Adaptation of Literacy Instruction – The importance of individualizing the literacy program to address the needs and strengths of learners; a variety of valid and efficient language arts assessments appropriate for different purposes; the observable characteristics of a variety of reading and writing difficulties; strategies for modifying literacy instruction to support the needs of individual learners, including English Language Learners (ELLs)

Mathematics

5440-36 Early Childhood Education (Cont'd)

Demonstrates knowledge of mathematical content, concepts, and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*, including:

National Council of Teachers of Mathematics (NCTM) process skills as vehicles for acquiring and using mathematics content knowledge

Essential early numeracy concepts and their development, and typical misconceptions in mathematical reasoning held by young children

Specific content in the areas of number and operations; algebra and functions; geometry and measurement; and, data analysis, statistics, and probability, recommended for elementary teachers in *The Mathematical Education of Teachers* (2001, Conference Board of the Mathematical Sciences)

Social Studies

Demonstrates knowledge of historical and social science content, concepts, and skills in the areas of development of children's historical thinking; history; cultural geography; diversity, unity, identity, and interdependence; and citizenship as delineated in current national professional standards, in *Vermont's Framework of Standards and Learning Opportunities*.

Science

Demonstrates knowledge of scientific content, concepts, and skills in the areas of development of children's scientific thinking; the scientific inquiry process; life sciences; physical sciences; Earth, environmental, and atmospheric sciences; and living and non-living systems, as delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*.

Performance Standards – English Language Arts:

Creates a literacy environment and implements a language arts curriculum that fosters interest and growth in all aspects of oral and written literacy in order to provide children with the communication skills necessary to understand and influence their own lives and to learn about the world. Specifically, the educator:

Literacy Development through Literature and Media –

Makes easily accessible to children a wide variety of engaging, age-appropriate fiction and non-fiction textual materials, including picture books, "big books", and chapter books

5440-36 Early Childhood Education (Cont'd)

Selects and reads quality literature aloud and applies tools of literary analysis to the facilitation of discussions of central themes and ideas

Uses active instructional strategies to support emergent and early literacy

Implements strategies to include parents as partners in their children's literacy development

Language and Word Study –

Engages in one-on-one and small group dialogue with children about their ideas, activities, interests, and motivations in order to promote oral language development and model conversational skills

Uses a variety of explicit and interactive approaches to teach key aspects of word study such as phonemic awareness, print concepts, and decoding

Teaches children to use syntactic, semantic, and graphophonemic cues to identify and spell words

Employs effective instructional strategies for the development of a broad vocabulary

Reading Comprehension and Fluency –

Provides explicit instruction in how to flexibly use pre-, during, and post-reading cognitive strategies to understand, analyze, and interpret a variety of types of texts

Employs a range of instructional approaches to support comprehension across the content areas

Uses instructional strategies to build or strengthen fluency

Written Expression –

Encourages drawing as a precursor for written expression

Provides multiple opportunities for beginning writers to learn that print carries meaning (e.g., by demonstrating for children the connections between their illustrations and words), to use writing purposefully, and to explore sound-symbol relations

Organizes and implements a writing portfolio program that promotes high quality writing by including a variety of instructional strategies and topics to teach purposes, structures, and composition

5440-36 Early Childhood Education (Cont'd)

Uses required writing rubrics and benchmarks for assessing children's writing and teaches children to use these to analyze their own writing

Models and teaches appropriate grammar, usage, and mechanics

Implements strategies to build fluency, accuracy, and automaticity in handwriting to support composition

Assessment and Adaptation of Literacy Instruction –

Uses a variety of valid assessment strategies (including records of oral reading) to regularly evaluate children's progress in all of the individual dimensions of literacy development

Uses the results of literacy assessments to adjust and/or target instruction, to flexibly group children, when needed, and to appropriately match children with reading material

Performance Standards – Mathematics, Social Studies, and Science:

Implements inquiry-based mathematics, history/social sciences, and science curricula that integrate skills and content and enable conceptual development and development of the habits of mind that support inquiry within each discipline. Specifically, the educator:

Mathematics

Anticipates, elicits, and corrects typical misconceptions in mathematical reasoning

Models the habits of mind of flexibility and perseverance that support mathematical learning

Employs a range of instructional activities and resource materials to support the development of early numeracy concepts, and to reveal the application of mathematics to everyday life

Designs and incorporates mathematical tasks/activities that capitalize upon children's intuitive insights and language and that enable children to investigate, explore, and discover structures and relationships; create and use mathematical models; apply informal strategies to solve mathematical problems; formulate and solve problems individually and collaboratively; and justify and communicate their conclusions orally and in writing

Communicates mathematical ideas using appropriate mathematical language and representations, and teaches children to use both to communicate about mathematical ideas

Uses required mathematics scoring guides and benchmarks to evaluate student work and teaches students to use both to evaluate their own work

5440-36 Early Childhood Education (Cont'd)

Social Studies

Incorporates activities that enable children to make connections between themselves and the larger world, including sharing and experiencing different cultures and traditions, and exploring the relationship between people and their environments

Designs and implements activities that use children's own stories as a way to introduce the chronological thinking essential to historical thinking

Provides opportunities for children to learn about their communities through active learning strategies (e.g., building classroom systems based on real-life systems such as a barter economy or postal system), to participate in community-based investigations and service projects, and to access and use local historical resources

Provides opportunities for children to explore and use historical, geographical, and social science tools and methods

Science

Anticipates and elicits the naïve scientific ideas, emerging concepts, and/or misconceptions that young children are likely to have prior to instruction

Models the skills and habits of mind inherent in scientific inquiry

Provides opportunities for children to raise questions, become aware of the scientific nature of their questions, and to investigate their questions using the scientific method

Designs a variety of activities that allow children to build on their own intuitive explanations of how things work, as they acquire more sophisticated scientific understandings

Creates opportunities for children to collaboratively design and implement scientific investigations, and to present and discuss the results of their investigations

Conducts investigations according to safe scientific procedures

Integrates scientific tools appropriate to children's ages and abilities in order to facilitate inquiry

Demonstrates sensitivity to inequities in science and mathematics teaching by incorporating specific instructional strategies that promote equity

Additional Requirements: A minimum of a practicum, or the equivalent, in early childhood education at the birth-to-5 and/or 5-8 age levels, depending on the authorization sought. For the full birth through grade 3 authorization, practica at **both** the birth-to-5 and 5-8 age levels are required.

5440-80 Early Childhood Special Educator (Revised 12/17/12)

The holder is authorized to provide early childhood education, birth through preschool, and early intervention and special education services, including service coordination, case management and comprehensive evaluation services, to children from birth to age 6.

In order to qualify for this endorsement, the candidate must demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of typical and atypical prenatal through middle childhood growth and development, including the implications of a variety of delays, disorders, and disabling conditions for learning and development; appropriate procedures and strategies for identifying and supporting the learning and development of infants, toddlers, and young children with special needs; and procedural, consultation/collaboration, and management knowledge and skills essential to implementation of an effective early intervention or educational support program, as delineated in current national professional standards. Specifically, the educator understands:

Foundations:

Typical and atypical prenatal through middle childhood growth and development within each domain, including the wide variation in how young children learn and typically develop; the integration of development across all skill areas; and the importance of secure, responsive relationships and consistency of caregivers to infants', toddlers', and young children's learning and healthy development

Biological, genetic, environmental, familial, linguistic, and cultural factors in infants', toddlers', and young children's development and their impact on exceptionalities

The importance of sensory exploration and play to infants', toddlers', and young children's cognitive, motor, perceptual, linguistic, and social development

The developmental consequences of stress and trauma, protective factors and resilience, the development of mental health, and the importance of supportive relationships

The role of families as the primary context for young children's development, including the importance of parents' expectations for their children, and how infants', toddlers', and young children's development is affected by and affects parents, siblings, and extended family

The key roles of the early childhood special educator as teacher, advocate, consultant, facilitator, and collaborator within the early intervention/early childhood special education agencies and support systems

5440-80 Early Childhood Special Educator (Cont'd)

The philosophical, ethical, historical, and legal foundations of early intervention and early childhood special education services and programs, including the evolution of key litigation, legislation, and regulations affecting these programs

Current models and theories that form the basis of early intervention and early childhood special education practice

Current laws, regulations, and procedures governing the referral; intake and/or screening; identification/evaluation; eligibility determination; development, implementation, and monitoring of

Individualized Family Service Plans (IFSP) and Individualized Education Programs (IEP); and the range of services and support for infants, toddlers, and young children with disabilities and their families

Professional and ethical standards of practice

Program Development, Consultation, and Collaboration:

Characteristics, processes, and roles associated with effective collaboration, teaming, consultation, facilitation, and communication within family, school, and community systems

The articulation of Vermont's learning standards for infants, toddlers, and young children

Family systems theory and principles of family-centered practice, including how to work cooperatively and respectfully with all families to support infants', toddlers', and young children's learning and development

Strategies for effective group facilitation and leadership

Local, state, and community resources, service delivery systems, and systems of care available to support infants, toddlers, and young children and their families

The different roles of the various specialized therapeutic service providers (e.g., OT's, PT's, SLPs) available to support infants, toddlers, and young children with disabilities

Roles and responsibilities of paraeducators and their supervision

Assessment:

The comprehensive evaluation process, including legal aspects, appropriate procedures, and principles of non-discriminatory evaluation

5440-80 Early Childhood Special Educator (Cont'd)

Appropriate strategies for assessing infants', toddlers', and young children's learning and development, involving families as active participants, and interpreting reports from specialized service providers

Appropriate strategies for identifying family resources, priorities, and concerns

Measurement theory and practice, including issues of validity, reliability, norming, and bias

Disabilities and Interventions:

Characteristics of the disabilities stipulated in state law, and impacts of these disabilities on infants', toddlers', and young children's learning and development and on family functioning

The importance of physical and interpersonal environments on infants', toddlers', and young children's growth and development

Curricular design and instructional strategies that build upon children's play and curiosity and engage the unique intellectual and psychosocial nature and needs of infants, toddlers, and young children

Specialized curricula, instructional strategies, alternative communication modes, and assistive technologies that can enhance development across domains

Strategies for supporting and enhancing learning and development across environments, for incorporating interventions into existing environments (e.g., homes, child care centers, hospitals), and for facilitating maintenance and generalization of skills across environments

Health and safety issues, including procedures regarding disease and accident prevention, hygiene, and first aid; the signs of emotional stress, harassment, child abuse and neglect in infants, toddlers, and young children; state and federal laws and regulations pertaining to early childhood educators and programs

Foundations of Basic Skill Areas:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition, including the phonemic, morphemic, semantic, syntactic, and pragmatic systems of language and their relationship to the development of early literacy; the impact of physical, emotional, and cultural factors on language development and the acquisition of reading and writing; the role of metacognition in language and literacy development; the elements of effective, age-appropriate verbal and non-verbal communication; the ways in which creative and active early learning environments and activities provide opportunities for establishing the foundations of literacy

5440-80 Early Childhood Special Educator (Cont'd)

Second Language Acquisition – The process of second language acquisition and distinctions between language learning issues and learning disabilities

Numeracy – The continuum of development of mathematical thinking, particularly in the areas of mathematical reasoning and quantification

Behavior – Typical and atypical social/emotional, psychological, and cognitive development as they relate to behavioral development

Motor Skills – Typical and atypical sensory and motor development; functioning issues associated with various common disabling conditions; relationship of sensory and motor functioning to learning, behavior, and demonstration of competence in a variety of tasks

Adaptive Skills – Typical and atypical communication, cognitive, and motor skill development as they relate to the development of self-help skills in infants, toddlers, and young children

Performance Standards:

Working in collaboration with families, early educators, and other professional and paraprofessional personnel, the Early Childhood Special Educator determines eligibility for early intervention and special education services; develops, implements, coordinates, and evaluates family-centered early intervention and special educational programs for infants, toddlers, and young children with special needs; identifies and implements accommodations to activities or environments in order to support inclusion; and provides direct services in order to enable infants, toddlers, and young children with special needs to meet Vermont's learning expectations and to support their families. Specifically, the educator:

Foundations:

Advocates for the particular needs of infants, toddlers, and young children with early intervention and special education plans and for an effective, comprehensive system of support services for all infants, toddlers, and young children and their families

Adheres to ethical and professional standards and to state and federal legal and regulatory requirements pertaining to the education of infants, toddlers, and young children identified as having special needs, and to the involvement of their families

Program Development, Consultation, and Collaboration:

Works cooperatively and respectfully with all families to support infants', toddlers', and young children's learning and development, including using collaboration skills to foster respectful and beneficial relationships with families and to encourage their participation in decision making and planning

5440-80 Early Childhood Special Educator (Cont'd)

Uses a variety of data and resources to develop Individualized Family Service Plans (IFSP) or Individualized Education Programs (IEP) that incorporate both child and family outcomes, in partnership with family members, professional colleagues, and personnel from other agencies, as appropriate

Obtains multiple perspectives on the strengths and needs of infants, toddlers, and young children with disabilities, and defines authentic, observable, measurable, and sequenced short- and long-term objectives and benchmarks in service and educational plans

Coordinates services for infants, toddlers, and young children with special needs and their families across agencies

Designs and evaluates processes that support infants', toddlers', and young children's and their families' transitions among and across programs and settings

Collaborates with families, early educators, and community personnel to enhance infants', toddlers', and young children's learning, growth, and development, including coordinating educational programs and helping families to secure appropriate services

Collaborates with early childhood educators and/or other care providers in accommodating infants, toddlers, and young children with special needs within various settings by identifying, developing, or modifying materials, curricula, or aspects of the environment, and by modeling various methods and techniques

Demonstrates effective teaming and consultation skills with families and other service providers

Assessment:

Facilitates the comprehensive evaluation process, including adhering to appropriate program, state and federal guidelines, and procedures

Assists families of infants, toddlers, and young children to identify their resources, priorities, and concerns in relation to their child's development

Selects and uses a variety of appropriate informal and formal assessments and methods to assess infants', toddlers', and young children's cognitive, social-emotional, communication, motor and adaptive development, and health for the purposes of establishing or re-establishing eligibility for early intervention and special education services, and for monitoring overall development

Differentiates among assessments appropriate for different purposes

5440-80 Early Childhood Special Educator (Cont'd)

Interprets reports from specialized service providers

Incorporates the results of eligibility assessments into written evaluation reports that communicate the array of information gathered in a technically-correct format that is understandable to all who must be able to use the reports

Monitors, summarizes, and evaluates the acquisition of child and family outcomes as outlined in the IFSP or IEP

Develops and uses formative and summative program evaluation to ensure comprehensive quality of the total environment for children, families, and the community

Interventions:

Supports and facilitates family and child interactions, and the use of their natural environment as the primary contexts for learning and development

Uses appropriate and culturally-sensitive adult learning strategies to support families in the level of participation that matches their preferences (e.g., coaching, triadic, mentoring)

Incorporates individualized learning, developmental, and functional objectives into an integrated curriculum that builds upon the family's resources, priorities, concerns, and the natural learning opportunities that exist for each family, reflects children's interests, incorporates skills and concepts from across the content areas and developmental domains, and reflects culturally valued content and children's home experiences

Demonstrates effective communication and relationship building skills, interviewing skills, and home visiting methods that engage families of infants and toddlers and that are responsive to families' initial and ongoing priorities

Integrates the various specialized therapeutic services into ongoing intervention and educational practice

Monitors and evaluates the efficacy of interventions based on ongoing observation and data collection, makes adjustments to infants', toddlers', and young children's plans based on these assessments, and provides support and feedback to families, educators, and service providers to adjust their practices

Implements curriculum using a variety of learning strategies, including play-based and teacher-directed approaches, in order to meet the needs of all young children

5440-80 Early Childhood Special Educator (Cont'd)

Plans indoor and outdoor environments that are safe, stimulating, engaging, developmentally- and functionally-appropriate, and intentionally designed to support early intervention or special education goals

Promotes the prosocial development of young children in the areas of self-awareness, personal responsibility, and respect for self and others

Uses various techniques appropriate to young children to encourage and teach positive social skills and interaction among children

Selects and implements methods of behavior support and management appropriate for infants, toddlers, and young children

Anticipates peer conflicts and models how to engage in equitable and respectful conversation and behavior

Responds to and follows children's leads, including recognizing and supporting child-initiated play both indoors and outdoors, and developing activities to incorporate and extend their individual interests

Additional Requirements:

Bachelor's degree with a recommendation for licensure in early childhood special education, or a minimum of 21 credits in early childhood special education

A minimum of a practicum, or the equivalent, in early childhood special education at **both** the infant/toddler (birth to age 2) and preschool (age 3 to age 6) levels

5440-84 Educational Speech Language Pathologist

The holder is authorized to provide speech and language services, including case management and comprehensive evaluation services, to individuals age 3 through 21. (Requires the clinical SLP License)

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Qualification for the Vermont Speech Language Pathology License is a prerequisite for this endorsement. In addition, the candidate shall demonstrate the following knowledge and skills related to the practice of Speech Language Pathology in a public education setting:

Knowledge Standards:

Current state and federal laws, regulations, and procedures governing the referral, identification, evaluation, eligibility determination, educational placement, and accommodation of individuals with communication delays and disorders

The impact of receptive or expressive language delays or disorders (including hearing loss or auditory processing disorder) on the acquisition of literacy

The impact of communication delays and disorders on development across the domains and on the results of other forms of assessment (e.g., psychosocial, cognitive, or vocational)

Teaching strategies and accommodations which support the learning of individuals with communication delays and disorders, including instructional methodologies and augmentative or alternative communication systems that support language development and/or communication in all modalities

Performance Standards:

Applies appropriate screening and assessment measures to identify individuals with communication delays and disorders who are eligible for special services under federal and state regulations, using appropriate technologies as needed

Works collaboratively with teachers, parents/caregivers, and other professional personnel to design and implement, or supervise the implementation of, developmentally-appropriate educational plans for individuals with communication delays and disorders, including directly teaching, or supervising the teaching of, the communication skills essential to literacy development

Evaluates individuals' communication status and/or progress in relation to their educational plan goals and communicates information about their needs and progress clearly and effectively to parents and other school personnel, both orally and in writing

5440-84 Educational Speech Language Pathologist (Cont'd)

Acts as a case manager to ensure coordinated services for individuals with communication delays and disorders who are eligible for special services

Assists classroom teachers in accommodating individuals with communication delays and disorders within the regular classroom by identifying or developing educational materials or curricula, aspects of the classroom environment, teaching techniques, and/or classroom management techniques which support the educational and therapeutic needs of individuals with communication delays and disorders

Trains and supports family members and other communication partners of individuals with communication delays and disorders in techniques and/or strategies to enhance their communication effectiveness

Provides training and consulting services to teachers, administrators, and other school personnel regarding the implications of communication delays and disorders for learning, as well as modifications and/or accommodations to support the learning of these individuals

Collaborates with audiologists in the assessment of auditory processing disorders in cases in which there is evidence of speech, language and/or other cognitive-communication disorders; and provides or supervises the intervention for individuals with auditory processing disorders

Collaborates with teachers of English as a Second Language to enhance students' communication effectiveness

Trains and supervises support personnel according to American Speech Language Hearing Association (ASHA) guidelines for supervision

Additional Requirements:

Clinical licensure as a Speech Language Pathologist in the state of Vermont

A minimum of a practicum in an educational setting in the diagnosis and management of individuals with communication delays and disorders under the supervision of a licensed Educational Speech Language Pathologist or ASHA certified Speech Language Pathologist

5440-42 Educational Technology Specialist

The holder is authorized to plan and implement instruction and evaluate student learning in the use and integration of educational technologies in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of topics, concepts, and skills essential to the effective integration of technology in the teaching and learning process, as delineated in current national professional standards, including:

The history and cultural significance of information technologies and the impact of information technology on learning, today's society, cultural diversity, and ecological sustainability

Ways technology can be used to support high-quality, standards-based curriculum, instruction, and assessment in all content areas, including instructional design principles that rely upon research-based learning theories to guide the use of computers and other technologies in education

Proficiency in current technologies

Strategies for troubleshooting and maintaining various hardware and software configurations

Ways assistive technologies can be used to support the learning of children with various forms of disabilities

Performance Standards:

Supports the effective integration of technology throughout all areas of the school's curriculum as delineated in Vermont's *Framework of Standards and Learning Opportunities*. Specifically, the educator:

Identifies, helps design, implements, and evaluates authoring, programming, and problem solving environments for use in the classroom

Designs and implements, and collaborates with classroom teachers to design and implement, tasks or projects that incorporate various technologies as tools to facilitate and enhance students' research, critical thinking, problem solving, analysis, collaboration, communication, and presentation skills

Assists classroom teachers and other staff to develop effective means of assessing students' learning of technology concepts and skills across the curriculum, and to assess technology's impact on the enhancement of student learning

5440-42 Educational Technology Specialist (Cont'd)

Collaborates with classroom teachers and other staff to conduct needs-assessments that identify instructional problems for which information technologies might be appropriate components of the solution

Adapts to new technologies and helps teachers to integrate them into the educational process, as appropriate

Collaborates with special educators and student support professionals to identify and implement technologies to support the learning of students with various forms of disabilities

Applies and models the ethical use of educational technologies

Demonstrates sensitivity to inequities in technology access in schools by incorporating and modeling specific instructional strategies that promote equity

Collaborates with other school and district staff to evaluate the effectiveness of the school and/or district's implementation of its information technology plan

5440-00 Elementary Education

The holder is authorized to teach grades K-6.

In order to qualify for this endorsement, the candidate shall demonstrate that he/she meets the knowledge and performance standards for professional knowledge of elementary education as well as the knowledge and performance standards for the four major content areas of the elementary curriculum as follows:

Knowledge Standards – Professional Knowledge:

Demonstrates a thorough understanding of the developmental nature and needs of children ages 5-12, and of ways to structure the learning environment and organize, implement, and assess curriculum and instruction to maximize students' learning and development. Specifically, the educator understands:

The progression of typical early childhood through early adolescent growth and development within each domain (i.e., cognitive, linguistic, social, physical, and emotional), including the wide variation in how students learn and typically develop, and the variety of economic, social, and cultural influences which affect each student's life

The characteristics and signs of atypical development and the challenges these present to teaching and learning

How to work cooperatively and respectfully with all families to support students' learning and development

Ways to organize the learning environment in order to promote children's holistic development

Curricular design and instructional techniques that engage the unique intellectual and psychosocial nature and needs of elementary students, including embedded literacy strategies that promote the reading and writing skill development of all students across the content areas

Music, drama, and the visual arts as expressions of human emotion and culture, powerful forms of communication, and vehicles for enhancing learning opportunities across the curriculum

Performance Standards – Professional Knowledge:

Elementary educators draw upon their knowledge of child and early adolescent development and learning theory; the interests, needs, and backgrounds of their students; and their knowledge of subject matter, integrative curriculum, and assessment to design and implement developmentally-appropriate learning experiences that enable students to explore challenging concepts and issues and develop essential foundational skills in purposeful and engaging ways. Specifically, the educator:

5440-00 Elementary Education (Cont'd)

Uses proactive, collaborative strategies to promote parent-teacher and parent-child communication about student learning and development

Provides an appropriate learning environment that promotes the developmental needs of children in the areas of self-awareness and respect for self and others

Develops and implements curricula that explore themes and concepts that transcend the disciplines and/or grades, and that help students understand how the subjects they study can be used to explore issues in their lives and in the world around them

Implements curriculum using a variety of instructional strategies to ensure that all students learn the central concepts in each content area, are engaged in active learning, and to promote individual development and social cooperation

Integrates the visual and performing arts within the curriculum and facilitates and encourages children's creative expression through a variety of media

Incorporates embedded literacy strategies throughout all instruction

Knowledge Standards – English Language Arts, Mathematics, Social Studies, and Science:

English Language Arts

Demonstrates knowledge of research-based principles and processes underlying literacy development, and the components of effective literacy instruction, as delineated in current national professional standards and reflected in *Vermont's Framework of Standards and Learning Opportunities*. Specifically, the educator understands and/or knows:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the development of emergent and early literacy; the impact of physical, emotional, and cultural factors on language development and acquisition of reading and writing; role of metacognition in language and literacy development; the elements of effective verbal and non-verbal communication

Literature and Media – A wide variety of quality, age-appropriate literature across genres, eras, cultures, and subcultures; literary elements and strategies for textual analysis

Language and Word Study – The purposes of language and approaches to analyzing language; the pronunciation of English phonemes and their graphemes; the developmental progression of phonological awareness; vocabulary development and its relationship to literacy acquisition; the developmental stages of spelling and morphological analysis

5440-00 Elementary Education (Cont'd)

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, including typical features of beginner texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency of beginning and developing readers

Written Expression – Writing as symbolic representation and the stages of early writing development, including drawing; the composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios and benchmarks and standards for various age/grade levels

Assessment and Adaptation of Literacy Instruction – The importance of individualizing the literacy program to address the needs and strengths of learners; a variety of valid and efficient language arts assessments appropriate for different purposes; the observable characteristics of a variety of reading and writing difficulties; strategies for modifying literacy instruction to support the needs of individual learners, including English Language Learners (ELLs)

Mathematics

Demonstrates knowledge of mathematical content, concepts, and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*, including:

National Council of Teachers of Mathematics (NCTM) process skills as vehicles for acquiring and using mathematics content knowledge

Essential early numeracy concepts and their development, and typical misconceptions in mathematical reasoning held by early primary to early adolescent students

Specific content in the areas of number and operations; algebra and functions; geometry and measurement; and, data analysis, statistics, and probability, recommended for elementary and middle grades teachers in *The Mathematical Education of Teachers* (2001, Conference Board of the Mathematical Sciences)

Social Studies

Demonstrates knowledge of historical and social science content, concepts, and skills in the areas of development of students' historical thinking; history; cultural geography; diversity, unity, identity, and interdependence; and citizenship as delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*.

5440-00 Elementary Education (Cont'd)

Science

Demonstrates knowledge of scientific content, concepts, and skills in the areas of development of students' scientific thinking; the scientific inquiry process; life sciences; physical sciences; earth, environmental, and atmospheric sciences; and living and non-living systems, as delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*.

Performance Standards – English Language Arts:

Implements a language arts curriculum that fosters interest and growth in all aspects of oral and written literacy in order to provide students with the communication skills necessary to understand and influence their own lives and to learn about the world. Specifically, the educator:

Literacy Development through Literature and Media–

Uses a wide variety of fiction and non-fiction textual materials, including some of students' own selection, to increase students' motivation to read independently for information, pleasure and personal growth

Selects and reads quality literature aloud and applies tools of literary analysis to the facilitation of discussions of central themes and ideas within literature

Employs a range of instructional strategies to support emergent and early literacy

Uses active instructional strategies to promote various dimensions of oral language development, and to facilitate critical analysis and interpretation

Teaches students to distinguish between fact, opinion, and interpretation, and how to analyze and judge the credibility of print and non-print communications

Implements strategies to include parents as partners in the literacy development of their children

Models and teaches the elements of effective verbal and non-verbal communication

Language and Word Study –

Uses a variety of explicit and interactive approaches to teach key aspects of word study such as phonemic awareness, print concepts, and decoding

5440-00 Elementary Education (Cont'd)

Teaches students to use syntactic, semantic, and graphophonemic cues to identify and spell words

Employs effective instructional strategies for the development of a broad vocabulary

Reading Comprehension and Fluency –

Provides explicit instruction in how to flexibly use pre-, during, and post-reading cognitive strategies to understand, analyze, and interpret a variety of types of texts

Employs a range of instructional approaches to support comprehension across the content areas

Uses instructional strategies to build or strengthen fluency

Written Expression –

Provides multiple opportunities for beginning writers to learn and practice that print carries meaning (e.g., by demonstrating for children the connections between their illustrations and words), to use writing purposefully, and to explore sound-symbol relations

Organizes and implements a writing portfolio program that promotes high quality writing by including a variety of instructional strategies and topics to teach purposes, structures, and composition

Uses required writing rubrics and benchmarks for assessing student writing and teaches students to use these to analyze their own writing

Models and teaches appropriate grammar, usage, and mechanics

Implements strategies to build fluency, accuracy, and automaticity in handwriting to support composition

Assessment and Adaptation of Literacy Instruction –

Uses a variety of valid assessment strategies (including records of oral reading) to regularly evaluate students' progress in all of the individual dimensions of literacy development

Uses the results of literacy assessments to adjust and/or target instruction, to flexibly group students, when needed, and to appropriately match students with reading material

Performance Standards – Mathematics, Social Studies, and Science:

5440-00 Elementary Education (Cont'd)

Implements mathematics, history/social sciences, and science curricula that integrate skills and content and enable conceptual development and development of the habits of mind that support inquiry within each discipline. Specifically, the educator:

Mathematics

Anticipates, elicits, and corrects typical misconceptions in mathematical reasoning

Models the habits of mind of flexibility and perseverance that support mathematical learning

Employs a range of instructional activities and resource materials to support the development of early numeracy concepts, and to reveal the application of mathematics to everyday life

Designs and incorporates mathematical tasks/activities that capitalize upon children's intuitive insights and language and that enable students to investigate, explore, and discover structures and relationships; create and use mathematical models; apply informal strategies to solve mathematical problems; formulate and solve problems individually and collaboratively; and justify and communicate their conclusions orally and in writing

Communicates mathematical ideas using appropriate mathematical language and representations, and teaches students to use both to communicate about mathematical ideas

Uses required mathematics scoring guides and benchmarks to evaluate student work and teaches students to use both to evaluate their own work

Integrates appropriate manipulatives and technological tools to facilitate mathematical problem solving and communication

Social Studies

Models how historians, geographers, and other social scientists view, analyze, and interpret the world

Incorporates activities that enable children to make connections between themselves and the larger world, including sharing and experiencing different cultures and traditions, and exploring the relationship between people and their environments

Designs and implements activities that use children's own stories as a way to introduce the chronological thinking essential to historical thinking

Provides opportunities for students to examine and interpret historical and contemporary events and issues through active learning strategies such as research, role-play, debate, and discussion

5440-00 Elementary Education (Cont'd)

Provides opportunities for students to participate in community-based investigations and service projects, and to access and use local historical resources

Creates or adopts instructional and assessment tasks that teach students to analyze and interpret primary and secondary sources, identify webs of cause and effect, and differentiate between fact, opinion, and interpretation

Provides opportunities for students to use historical, geographical, and social science research methods, tools, and technologies

Science

Anticipates and elicits the naïve scientific ideas, emerging concepts, and/or misconceptions that students are likely to have prior to instruction

Models the skills and habits of mind inherent in scientific inquiry

Provides opportunities for students to raise questions, become aware of the scientific nature of their questions, and to investigate their questions using the scientific method

Designs a variety of activities that allow students to build on their own intuitive explanations of how things work as they acquire more sophisticated scientific understandings

Creates opportunities for students to collaboratively design and implement scientific investigations, and to present and discuss the results of their investigations

Conducts investigations according to safe scientific procedures

Integrates mathematical, scientific, and technological tools appropriate to students' ages and abilities in order to facilitate scientific inquiry

Conveys to students how the development of scientific and mathematical theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of "old" knowledge

Demonstrates sensitivity to inequities in science and mathematics teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

A minimum of a practicum, or the equivalent, in elementary education at both the primary (K-3) and upper elementary (4-6) instructional levels is required.

5440-05 English

The holder is authorized to teach English language arts in grades 7-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of research-based principles and processes underlying literacy development, and the components of effective literacy instruction, as delineated in current national professional standards and reflected in *Vermont's Framework of Standards and Learning Opportunities*. Specifically, the educator understands and/or knows:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the impact of physical, emotional, and cultural factors on language development and acquisition of reading and writing; role of metacognition in reading, writing, listening, speaking, and representing visually; the elements of effective verbal and non-verbal communication

Literature and Media – A wide variety of quality, age-appropriate literature and non-print media (i.e., film, video) across genres, eras, cultures, and subcultures; literary elements and devices; critical theories and approaches to analysis and interpretation of literature and non-print media (e.g., historical, deconstructionist, New Criticism)

Language and Word Study – The purposes of language and approaches to analyzing language; etymology of the English language; the pronunciation of English phonemes and their graphemes; vocabulary development and its relationship to literacy acquisition

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency

Written Expression – The composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios and benchmarks and standards for various age/grade levels

Assessment and Adaptation of Literacy Instruction – The importance of individualizing the literacy program to address the needs and strengths of learners; a variety of valid and efficient language arts assessments appropriate for different purposes; the observable characteristics of a variety of reading and writing difficulties; strategies for modifying literacy instruction to support the needs of individual learners, including English Language Learners (ELLs)

5440-05 English (Cont'd)

Performance Standards:

Implements a language arts curriculum that fosters interest and growth in all aspects of oral and written literacy in order to provide students with the communication skills necessary to understand and influence their own lives and to learn about the world, including exploring personal identity and social relationships, making ethical judgments, and critically evaluating ideas. Specifically, the educator:

Literacy Development through Literature and Media –

Uses a wide variety of fiction and non-fiction textual materials, including some of students' own selection, to increase students' motivation to read independently for information, pleasure and personal growth

Selects and reads quality literature aloud and applies tools of literary analysis to the facilitation of discussions of central themes and ideas within literature and non-print media

Uses active instructional strategies (e.g., debate, dramatization, presentation) to promote various dimensions of oral language development, and to facilitate critical analysis and interpretation

Teaches students to distinguish between fact, opinion, and interpretation, and how to analyze and judge the credibility of print and non-print communications

Models, fosters, and teaches active listening in order to enable thoughtful, equitable, and respectful classroom discourse

Models and teaches the elements of effective verbal and non-verbal communication

Language and Word Study –

Teaches students to use syntactic, semantic, and graphophonemic cues to identify and spell words

Employs effective instructional strategies for the development of a broad, independent vocabulary

Reading Comprehension and Fluency –

Provides explicit instruction in how to flexibly use pre-, during, and post-reading cognitive strategies to understand, analyze, and interpret a variety of types of texts

Employs a range of instructional approaches to support comprehension across the content areas

5440-05 English (Cont'd)

Uses instructional strategies to build or strengthen fluency

Written Expression –

Organizes and implements a writing portfolio program that promotes high-quality writing by including a variety of instructional strategies and topics to teach purposes, structures, and composition

Uses required writing rubrics and benchmarks for assessing student writing, and teaches students to use these to analyze their own writing

Models and teaches appropriate grammar, usage, and mechanics

Assessment and Adaptation of Literacy Instruction –

Uses a variety of valid assessment strategies to regularly evaluate students' progress in all of the individual dimensions of reading and writing development

Uses the results of literacy assessments to adjust and/or target instruction, to flexibly group students, when needed, and to appropriately match students with reading material

Additional Requirements:

A major in English or Comparative Literature, or the equivalent in undergraduate and/or graduate coursework

A minimum of a practicum, or the equivalent, at the middle/secondary level (7-12) in science, social studies, math, or English

5440-40 English Language Learner (Revised 12/17/12)

The holder is authorized to provide instruction in English language development to English Language Learners (ELLs) and to support the learning of ELL students in all content areas through collaboration with teachers, administrators, and parents. The holder is authorized to teach grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of the field of English as a second language, including language learning processes, teaching skills, and program planning processes and issues as follows:

Linguistics/Language Acquisition: The linguistic structures of the English language (phonology, morphology, syntax, lexicon, and discourse) and their relationship to academic language and content learning; current theories of first and second language acquisition across different age and developmental levels and diverse cultural groups; theories of literacy development and the relationship of oral language development to reading and writing development; sociolinguistic competence; distinctions between language learning issues and learning disabilities

Linguistic/Cultural Diversity: How culture and the acculturation process impact students' perceptions, learning styles, and affective needs; the history and contributions of various cultural and ethnic groups in the U.S.; the origins and nature of cultural bias and stereotyping

Assessment: Appropriate procedures and processes for identification, screening, assessment, and monitoring of ELL students' English language proficiency and content area skills and progress

Methodology and Curriculum Development: A variety of instructional approaches, methods, and techniques for teaching the listening, speaking, reading, writing, and cognitive skills (i.e., sociocultural skills, conversational English, academic language proficiency) that are required for meaningful participation in grade-level appropriate classes and adaptation to the American educational setting

Program Planning, Consultation, and Coordination: Federal and state legal requirements and guidelines relevant to the education of ELL students; the history, philosophy, and practice of various ESL program models

Performance Standards:

Implements an ESL curriculum that is based on current national professional standards, appropriately and accurately identifies students in need of ESL services, integrates the teaching of language learning and "academic" skills and content, and assists other staff in meeting the language learning and acculturation needs of ELL students within their classes

5440-40 English Language Learner (Cont'd)

and within the school, in order to maximize the learning opportunities of all ELL students. Specifically, the educator:

Linguistics/Language Acquisition:

Applies theories of first and second language acquisition to the design of developmentally-appropriate curriculum and instruction for ELL students

Linguistic/Cultural Diversity:

Works with other instructional staff to identify and address prejudice and cultural bias in teaching materials, school environments, or school practices

Takes active measures to involve linguistically and culturally diverse parents in their children's schooling

Assessment:

Implements appropriate federal and state procedures for identification, screening, assessment, placement, and monitoring of ELL students' progress

Selects, administers, and interprets developmentally and culturally appropriate instruments and activities for regular assessment of students' English language proficiency and content area skills, and uses the results of these assessments to target ESL instruction for individual students

Follows appropriate procedures for using interpreters/translators to assess students' native language and content area skills

Methodology and Curriculum Development:

Selects and implements specific instructional approaches, methods, or techniques for teaching listening, speaking, reading, writing, and cognitive skills that are appropriate to students' age and developmental levels, language proficiency levels, and cultural and experiential backgrounds

Selects or adapts instructional materials and curricula in order to integrate language learning objectives and strategies with content area learning objectives

Uses grouping strategies (e.g., whole-class, individualized instruction, pair work, cooperative learning groups, and small-group instruction) appropriate to particular language learning instructional objectives

Program Planning, Consultation, and Coordination:

5440-40 English Language Learner (Cont'd)

Provides guidance to classroom teachers on how to integrate ELL students socially and academically, how to adapt their instruction and materials to support language learning objectives, and how to assess their ELL students' content area progress

Collaborates with other instructional staff, support staff, interpreters/translators, and parents to plan and implement educational programs for ELL students and to ensure that ELL students have full access to the school program

Additional Requirements:

A minimum of a practicum, or the equivalent, in English as a Second Language at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in English as a Second Language at **both** the PK-6 and 7-12 instructional levels is required.

5440-09 Family and Consumer Sciences (Revised 4/15/09)

The holder is authorized to teach family and consumer sciences in grades 5-12 in middle and high schools.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of family and consumer sciences education concepts and skills delineated in current national professional standards and in Vermont's Framework of Standards and Learning Opportunities, including:

Personal Development & Life Planning: Personal development, life planning, and career exploration skills, including careers related to the study of Family and Consumer Sciences

Nutrition, Wellness & Food Science: Principles of food science, food technology, and nutrition, and their relationship to growth, development, health, and wellness

Consumer & Resource Management: Principles and practices of consumer resource management relative to human, material, and environmental factors, with emphasis on financial literacy

Family & Interpersonal Relationships: Changing roles and needs of individuals in the context of relationships with others and within the family system; multiple factors influencing the well being of families and interpersonal relationships including economic, environmental, gender, sexuality, and legal issues

Parenting & Human Development: Human growth and development, with emphasis on early childhood development; parent/guardian roles and responsibilities

Housing & Design: Historical, cultural, social, and technological factors influencing residential housing and interiors; considerations in selecting housing and interiors, including individual/family income, interests, needs and values; elements and principles of design; planning interior space design

Clothing, Textiles, & Related Arts: Historical, cultural, social, and other factors influencing fashion trends and individual apparel needs; clothing and textile characteristics, design, construction, and maintenance

Performance Standards:

Implements a comprehensive family and consumer sciences curriculum that integrates content and process standards and enables students to acquire the knowledge, skills, and attitudes that will assist them in their personal, family, and career lives, and to prepare those students who seek further training in family and consumer sciences related careers. Specifically, the educator:

5440-09 Family and Consumer Sciences (Cont'd)

Plans, delivers, and evaluates research-based instruction that incorporates national and state standards, and student, family, community, and societal needs

Facilitates instruction which includes the following: analysis of recurring and evolving family, workplace, and community concerns; application of scientific inquiry to test theories and gain factual knowledge on which to base judgments; and use of reasoning processes, individually and collaboratively, to take responsible and ethical action for self, others, and society

Creates activities which enable students to apply their knowledge of Family and Consumer Sciences to make informed decisions

Effectively facilitates the development of youth leadership skills by integrating programs and activities of appropriate national student organizations into instruction and assessment

Plans, organizes, and manages classroom laboratory experiences in accordance with state and national safety guidelines, with emphasis on equipment and food safety

Collaborates with colleagues, parents, and community members to maximize instructional resources and effectiveness

5440-31 Health Education (Revised 3/20/13)

The holder is authorized to teach health education in grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of health and health education concepts and skills delineated in current national professional standards, in *Health Education Guidelines for Curriculum and Assessment*, and in *Vermont's Framework of Standards and Learning Opportunities*, including:

Human development, including the typical progression of early childhood through early adolescent development (for PK-6) and/or early adolescent through adult growth and development (for 7-12), and age appropriate indicators of intellectual, physical, social and emotional health for each stage of development

Human body structure and functioning

The specific content areas of health education as defined in 16 VSA 131 and the Centers for Disease Control priority risk behaviors:

- a. Personal health (social, mental, physical, and emotional health maintenance, including the development of responsible personal behaviors and healthful stress maintenance skills)
- b. Nutrition (basic nutrition concepts, nutrient needs, dietary guidelines for Americans, and common nutritional problems of children and adults, including disordered eating)
- c. Physical activity (the health benefits of physical activity, research on physical activity and academic performance, factors that influence participation in physical activity, and strategies for collaborating with physical education colleagues to promote physical activity)
- d. Disease (etiology of diseases, including their origins, progression, diagnosis, treatment, and prevention, to include HIV/AIDS and other sexually transmitted infections)
- e. Intentional and unintentional injury prevention (safety issues and violence prevention, including bullying and harassment)
- f. Alcohol, tobacco, and other drugs (physiological, psychological, and sociological effects of substance use and abuse on the individual, family, and society; legal issues; and curriculum and teaching strategies for effective substance abuse prevention)
- g. Family health and comprehensive sexuality education (issues of human growth and development, families, relationships, reproductive health, abstinence, premature sexual activity, contraception, adolescent pregnancy, childbirth, adoption, and abortion)

5440-31 Health Education (Cont'd)

- h.* Community and consumer health (media literacy, advocacy, and accessing health information, products, and services)

Principles and Methods for Effective Comprehensive School Health Education

Historical development and theoretical foundations of skills-based health education programs

The impact of societal values, norms, and priorities on health education practice and a variety of strategies to deal with controversial health issues in the classroom

Research relative to health risks among school-age youth and translation of this research into the design and implementation of health education programs

Standards-Based Health Education Curriculum and Assessment

Effective, age-appropriate standards-based school health curricula

Multiple assessment techniques appropriate to health education, including performance assessments to evaluate student learning and guide instruction

School Health Program Planning

Purposes, components, and approaches to coordinating school health initiatives based on the Coordinated School Health Model, including partnerships with families, school staff, and community members to improve health literacy and health behaviors

Performance Standards

Implements a comprehensive, standards-based health education curriculum that enables students to acquire the knowledge, skills, and attitudes that promote lifelong wellness and healthy choice making. Specifically, the educator:

Selects and uses current, valid and reliable sources of health information, to include national, state, and local organizations/associations, publications, and educational materials/resources

Develops and/or adopts health curriculum and assessments that are age appropriate, standards-based, and derived from research on learning and human behavior

Applies active instructional strategies that align with standards-based learner outcomes and performance indicators

5440-31 Health Education (Cont'd)

Implements skill-building strategies to develop students' competency in essential health-related skills, including decision-making, goal setting, interpersonal communication, self-management, accessing information, and advocacy

Selects, designs, and uses a variety of standards-based assessment techniques to assess student understanding and performance, provide feedback, communicate student progress, and improve instruction

Creates a classroom climate that promotes respect for self and others, including psychological and emotional safety, as well as respect for privacy and confidentiality

Evaluates and applies research concerning best practices in health education

Collaborates with colleagues, families, and community within a Coordinated School Health Program to improve academic achievement and quality of life through health literacy and positive health behaviors

Additional Requirements:

Current certificates in full or compression only cardiopulmonary resuscitation (CPR) and the use of an Automated External Defibrillator (AED)

A minimum of a practicum, or the equivalent, in health education at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in health education at **both** the PK-6 and 7-12 instructional levels is required.

5440-81 Intensive Special Education Teacher

The holder is authorized to provide comprehensive special education services, in any public education setting, to individuals age 3 through 21 with intensive special needs, as defined in federal regulations pertaining to special education eligibility. The holder is authorized to provide or oversee the provision of instructional services and to collaborate with an interdisciplinary team to design, implement, and evaluate educational plans and accommodations for individuals with intensive special needs.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of human development, including the implications of a variety of delays, disorders, and disabling conditions for learning and development; appropriate procedures and strategies for identifying and supporting the learning and development of individuals with severe and multiple disabilities; and procedural, consultation, collaboration, and case management knowledge and skills essential to implementation of an effective educational support program, as delineated in current national professional standards. Specifically, the educator understands:

Foundations:

Typical and atypical development at the early childhood through adult level within each domain, including the wide variation in how individuals learn and typically develop, and the variety of economic, social, and cultural influences that affect each student's life

The interaction of primary language, culture, and familial background with an individual's special educational needs

The key roles of the special educator as teacher, advocate, consultant, facilitator, and collaborator within the educational support system

The philosophical, ethical, historical, and legal foundations of special education, including the evolution of key litigation, legislation, and regulations affecting special education

Current models and theories that form the basis of special education practice

Current state and federal laws, regulations, and procedures governing referral; identification/evaluation; eligibility determination; Individual Education Program (IEP) development, implementation, and monitoring; and placement of students with severe and multiple disabilities

Professional and ethical standards of practice

Program Development, Consultation, and Collaboration:

5440-81 Intensive Special Education Teacher (Cont'd)

The design and delivery of effective training programs to educational staff and parents

Characteristics, processes, and roles associated with effective collaboration, teaming, consultation, facilitation, and communication within school, family, and community systems

Family systems theory and principles of family-centered practice, including how to work cooperatively and respectfully with all families to support children's learning and development

Strategies for effective group facilitation, leadership, and conflict resolution

Local, state, and community resources, service delivery systems, and systems of care available to support students and their families

Guidelines for making related service decisions and different roles of related service providers (e.g., OTs, PTs, SLPs) required to support students with severe and multiple disabilities

Roles and responsibilities of paraeducators and their supervision

Assessment:

The comprehensive evaluation process, including legal aspects, appropriate procedures, and principles of non-discriminatory evaluation

Selection, administration, and interpretation of data from various forms of assessment, and interpretation of reports from specialized service providers, including medical evaluators

Measurement theory and practice, including issues of validity, reliability, norming, and bias

How to enable the participation of students with severe and multiple disabilities in all local and statewide assessments through accommodation and/or alternative assessment methods

Severe and Multiple Disabilities, Specialized Instruction, and Interventions:

Characteristics of the severe and multiple disabilities stipulated in state law, and impacts of these severe and multiple disabilities on an individual's educational performance, including knowledge of medical and health-related conditions

A wide variety of community-referenced, research-based specialized curricula, instructional practices, and curriculum-based assessments, adaptations, and accommodations and supports to enable students with severe and multiple disabilities to function in integrated community environments and to progress in the general education curriculum

5440-81 Intensive Special Education Teacher (Cont'd)

Research-based practices in functional curricular design and instruction, multi-level instruction, authentic teaching, curriculum overlapping, and differentiated instruction

Transition-planning and community-based education issues as they pertain to the needs of students with severe and multiple disabilities

Strategies for proactive and non-aversive behavior management

Foundations of Basic Skill Areas:

Development of Verbal and Non-Verbal Communication, Language, and Literacy – Processes, principles, and dimensions of communication and language acquisition; elements of effective, age-appropriate verbal and non-verbal communication; the impact of severe and multiple disabilities and emotional and cultural factors on communication, language development, and the acquisition of reading and writing; role of metacognition in communication, language, and literacy development; the purposes of language; the phonemic, morphemic, semantic, syntactic, and pragmatic systems of language and their relationship to the reading and writing process.

Reading – Reading as the process of constructing meaning from symbols (e.g., text, photographs, line drawings, alphabet, tangible symbols, and gestures)

Numeracy – The continuum of development of mathematical thinking, particularly in the areas of mathematical quantification, calculation, and reasoning and their application to the life skills as they relate to severe and multiple disabilities

Behavior – Typical and atypical social/emotional, psychological, and cognitive development as they relate to severe and multiple disabilities

Life Skills – Typical and atypical communicative, cognitive, sensory, and motor skill development as they relate to the development of personal care, socialization, vocational, recreation and leisure, community participation, and domestic skills

Sensory and Motor Skills – Typical and atypical sensory and motor development; functioning issues associated with various common disabling conditions; relationship of sensory and motor functioning to learning, classroom behaviors, and demonstration of competence in academic and non-academic tasks

Performance Standards

Working in collaboration with teachers, parents/caregivers, the student, and other professional and paraprofessional personnel, the Intensive Special Needs teacher determines eligibility for special education services; develops, implements, case manages, and evaluates individual educational programs for students with severe and multiple disabilities;

5440-81 Intensive Special Education Teacher (Cont'd)

identifies and implements accommodations of learning materials or environments in order to support inclusion; and provides direct instructional services in order to enable students with severe and multiple disabilities to meet Vermont's learning expectations for students. In addition, the Intensive Special Needs teacher provides professional and technical assistance to the Special Educator. Specifically, the Intensive Special Needs teacher:

Foundations:

Advocates for the particular needs of students with IEPs and for an effective, comprehensive system of support services for all students

Adheres to ethical and professional standards, and state and federal regulatory requirements pertaining to the education of students identified as having severe and multiple disabilities

Program Development, Consultation, and Collaboration:

Demonstrates collaborative and consultative skills in a variety of settings, including IEP planning and development, implementation of the comprehensive evaluation process, and communication with appropriate personnel regarding planning and delivery of instruction and accommodations

Works cooperatively and respectfully with all families to support and enhance student's learning and development, including using collaboration skills to foster respectful and beneficial relationships with parents and to encourage their participation in decision making and planning within EPTs

Uses a variety of data and resources to develop and evaluate IEPs in a collaborative context that includes the student, his or her family, and other professional colleagues and personnel from other agencies, as appropriate

Obtains multiple perspectives on the strengths and needs of students with severe and multiple disabilities, and defines authentic, observable, measurable, and sequenced short- and long-term objectives and benchmarks in IEPs

Case manages individual student programs and facilitates coordinated services for students with special learning needs and their families, including using collaboration skills to work with professionals and personnel from other agencies, as appropriate, to jointly plan services for children and youth with severe and multiple disabilities and their families

Supports classroom teachers in accommodating students with severe and multiple disabilities within the regular classroom by identifying, developing, or modifying instructional materials, curricula, or aspects of the classroom environment, and by modeling instructional methods and/or classroom management techniques

5440-81 Intensive Special Education Teacher (Cont'd)

Demonstrates effective team teaching skills with teachers in general classroom settings

Provides systematic training for special educators and other school personnel in specialized instructional techniques and methodologies

Assessment:

Facilitates the comprehensive evaluation process, including adhering to appropriate state and federal guidelines and evaluation procedures

Applies appropriate screening and assessment measures in order to identify learning difficulties and strengths, establish eligibility for special education services, and design effective individualized instruction

Interprets reports from specialized service providers

Incorporates the results of eligibility assessments into written evaluation reports that communicate the array of information gathered in a technically correct format that is understandable to all who must be able to use the reports

Specialized Instruction and Interventions:

Supports students to access and benefit from the general education curriculum and integrated community environments through specialized instruction and related services

Based on assessment data, selects and implements interventions and accommodations appropriate to individual student needs

Integrates the various specialized therapeutic services into ongoing curriculum and classroom practice

Educates students with severe and multiple disabilities within a framework that focuses on students' strengths, styles, interests, and student and family values and goals

Monitors and assesses the efficacy of instruction based on ongoing observation and data collection, makes adjustments to the students' learning plans based on these assessments, and provides support and feedback to classroom teachers to adjust their practice

Creates and/or modifies school or community learning environments and interactions in order to promote communication, self-directed learning, self-confidence, socialization, life skills, and academic achievement of students with severe and multiple disabilities

5440-81 Intensive Special Education Teacher (Cont'd)

Develops and implements systemic and proactive procedures that address problem behavior at the building, classroom, and individual student levels

Uses strategies to promote maintenance and generalization of students' knowledge and skills across settings

Designs and implements friendship and advocacy support systems in the regular classroom for students with severe and multiple disabilities, including facilitating partner and peer learning and other cooperative processes

Additional Requirements:

Completion of a bachelor's level teacher preparation program in the education of students with severe and multiple disabilities, or a minimum of 30 credits in the education of students with severe and multiple disabilities

A minimum of a practicum, or the equivalent, in the teaching of students with severe and multiple disabilities

5440-16 Junior ROTC Instructor

The holder is authorized to provide junior Reserve Officer Training Corps instruction to students in grades 9-12 who are enrolled in junior ROTC programs.

Requirements:

Current certification as a Junior Reserve Officer Training Corps Instructor by the federal Department of Defense

5440-61 Library Media Specialist

The holder is authorized to provide library media services and instruction in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of library media concepts, skills, and processes delineated in current national professional standards accepted by the American Association of School Librarians and the Association for Educational Communications and Technology, including:

Professional principles including intellectual freedom, equity of intellectual and physical access, copyright, and other ethical and legal tenets of librarianship

The research and information literacy processes as defined in *Vermont's Framework of Standards and Learning Opportunities* and current national professional standards

Accepted standard library practices and procedures for evaluating, acquiring, organizing, circulating, and deaccessioning collections; responding to information requests; and other professional responsibilities

The principles and processes of written, visual, and spoken literacy, including the development of reading, writing, listening, expression, and other forms of communication skills

A rich variety of children's, young adult, and adult classic and contemporary literature and non-print media (i.e., film, video); detailed knowledge of genres (e.g., fiction, including myths and folklore, non-fiction, drama, and poetry), eras, cultures, and subcultures within literature

Performance Standards:

Plans, implements, administers, and evaluates an integrated library media program that is based on current national professional standards and that supports student attainment of Vermont's Field of Knowledge and Vital Results standards in all content areas. Specifically, the educator:

Develops, acquires, organizes, and maintains a balanced, diverse collection of print and non-print resources to meet the needs of the educational community, using standard library procedures

Develops and maintains policies and procedures related to the operation of the school library media center, including selection, reconsideration, circulation, and management of resources

5440-61 Library Media Specialist (Cont'd)

Designs and implements, and collaborates with other staff to design and implement, standards-based curriculum that supports student attainment of Vermont's Communication Standards in all content areas

Chooses and maintains automated circulation and catalog systems and organizes the collection using standard cataloging procedures

Evaluates, selects, uses, and teaches students and other staff to use current and emerging school library media information technology resources, including catalog, circulation, reference, production, and other services and systems

Trains and supervises other library media center staff and volunteers

Establishes and maintains a public relations/information program geared to both the school and its surrounding community which develops awareness of, interest in, participation in, and commitment to library-media services and programs

Additional Requirements:

A minimum of 18 credits in library and information science

A minimum of a practicum, or the equivalent, in school library media services and instruction

5440-11 Mathematics

The holder is authorized to teach mathematics in grades 7-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of mathematical content, concepts, and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*, including:

National Council of Teachers of Mathematics (NCTM) process skills as vehicles for acquiring and using mathematics content knowledge

Typical misconceptions in mathematical reasoning held by early to late adolescents

Specific content recommended for middle grades and high school teachers in *The Mathematical Education of Teachers* (2001, Conference Board of the Mathematical Sciences) including:

Algebra and Number Theory – Properties of natural numbers and integers, as well as complex number systems; ways that basic ideas of number theory and algebraic structures underlie rules for operations on expressions, equations, and inequalities; use of algebra to model and reason about real-world situations; use of algebraic reasoning for problem solving and proofs in number theory, geometry, discrete mathematics, and statistics

Geometry and Trigonometry – Core concepts and principles of geometry in the plane and in space using Euclidean geometry along with Cartesian coordinate and vector methods, and applications to transformations and problem solving; trigonometry from geometric and graphical perspectives, and applications to problem solving

Functions and Analysis – Equations and formulas associated with each important class of functions and the way that parameters in these representations determine particular cases; logarithmic functions; how to use functions to solve problems in calculus, linear algebra, geometry, statistics, and discrete mathematics

Data Analysis, Statistics, and Probability – Use of surveys to estimate population characteristics, and design of experiments to test conjectured relationships among variables; use of both theory and simulations to study probability distributions, and applications of both theory and simulation in models of real phenomena; conditional probability and independence, and calculation of probabilities associated with these concepts; performance of formal hypothesis tests while applying appropriate statistical testing

5440-11 Mathematics (Cont'd)

Discrete Mathematics and Computer Science – Graphs, trees, and networks; enumerative combinatorics; iteration and recursion; conceptual underpinnings of computer science

Performance Standards:

Implements a mathematics curriculum that integrates mathematical inquiry skills and mathematical content, and enables conceptual development and development of the habits of mind that support mathematical inquiry. Specifically, the educator:

Anticipates, elicits, and corrects typical errors and misconceptions in mathematical reasoning through the planning and execution of lessons

Models the habits of mind of flexibility and perseverance that support mathematical learning

Designs and incorporates mathematical tasks/activities that enable students to investigate, explore, and discover structures and relationships; solidify basic mathematical skills; extend and generalize mathematical concepts; create and use mathematical models; apply concrete, formal, and informal strategies to solve mathematical problems; formulate and solve problems individually and collaboratively; and justify and communicate their conclusions orally and in writing

Conveys the real world applications of mathematical ideas, and the interconnections among mathematical ideas and between mathematics and other disciplines

Communicates mathematical ideas using appropriate mathematical language and mathematical representations, and teaches students to use both to communicate about mathematical ideas

Uses required mathematics scoring guides and benchmarks to evaluate student work and teaches students to use both to evaluate their own work

Provides opportunities for students to use appropriate technological tools to explore algebraic ideas and representations of information, study individual functions and classes of related functions, conduct geometric investigations, and solve problems

Conveys to students how the development of mathematical theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of “old” knowledge

Conveys to students the roles and responsibilities of mathematicians with respect to social, economic, cultural, and political systems, and provides them with opportunities to actively explore the full scope of career choices available to people in mathematics

5440-11 Mathematics (Cont'd)

Demonstrates sensitivity to inequities in mathematics teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

A major in mathematics, or the equivalent in undergraduate and/or graduate coursework in mathematics

A minimum of a practicum, or the equivalent, at the middle/secondary level (7-12) in science, social studies, math, or English

5440-19 Middle Grades

The holder is authorized to teach one or more of the following content areas – English Language Arts, Mathematics, Science, or Social Studies – in grades 5-9, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate that he/she meets the knowledge and performance standards for professional knowledge of middle grades education as well as the knowledge and performance standards for one or more of the core content areas of the middle grades curriculum as follows:

Knowledge Standards – Professional Knowledge:

Demonstrates a thorough understanding of the developmental nature and needs of early adolescents, and of ways to structure the learning environment and organize, implement, and assess curriculum and instruction to maximize students' learning and development.

Specifically, the educator understands:

The intellectual, physical, social, emotional, and psychological changes that occur during early adolescence, including the wide variation in how students learn and typically develop, and the variety of economic, social, and cultural influences that affect each student's life

How to work cooperatively and respectfully with all families to support students' learning and development

Organizational techniques that support early adolescents' developmental needs for close, trusting relationships between adults and students, and among students

Curricular design and instructional techniques that engage the unique intellectual and psychosocial nature and needs of early adolescent students

Embedded literacy strategies that promote the reading and writing skill development of all students across the content areas

Performance Standards – Professional Knowledge:

Middle Grades educators draw upon their understanding of early adolescent development and learning theory; the interests and needs of their students; and their knowledge of subject matter, integrative curriculum, and assessment to design and implement learning experiences that enable students to confront, explore, and understand challenging concepts and issues and improve skills in purposeful and engaging ways. Specifically, the educator:

Uses proactive, collaborative strategies to promote parent-teacher and parent-student communication about student learning and to enhance parent-students relationships

5440-19 Middle Grades (Cont'd)

Provides an appropriate learning environment that meets the developmental needs of early adolescents in the areas of identity, intimacy, autonomy, and affiliation

Designs and implements curricula that are personally and socially relevant, that incorporate real world topics, and that are based upon integrative themes that bring to bear the habits of mind and dispositions of various disciplines

Collaborates with other teachers to integrate themes, skills, and content from multiple disciplinary areas within the classroom curriculum

Implements curriculum using a variety of instructional strategies to ensure that all students learn the central concepts within the disciplines and are engaged in active learning, and to promote individual development and social cooperation

Incorporates embedded literacy strategies throughout all instruction

Uses assessment strategies and methodologies that require students to take increasing responsibility for understanding themselves as learners, evaluating their own work, and setting their own learning goals

Additional Requirements:

A minimum of a practicum, or the equivalent, at the middle grades level (5-9) in science, social studies, math, or English

Knowledge Standards – English Language Arts:

Demonstrates knowledge of research-based principles and processes underlying literacy development, and the components of effective literacy instruction, as delineated in current national professional standards and reflected in *Vermont's Framework of Standards and Learning Opportunities*. Specifically, the educator understands and/or knows:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the impact of physical, emotional, and cultural factors on language development and acquisition of reading and writing; role of metacognition in language and literacy development; the elements of effective verbal and non-verbal communication

Literature and Media – A wide variety of quality, age-appropriate literature and non-print media (i.e., film, video) across genres, eras, cultures, and subcultures; literary elements and strategies for textual analysis

5440-19 Middle Grades (Cont'd)

Language and Word Study – The purposes of language and approaches to analyzing language; etymology of the English language; the pronunciation of English phonemes and their graphemes; the developmental progression of phonological awareness; vocabulary development and its relationship to literacy acquisition; the developmental stages of spelling and morphological analysis

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency

Written Expression – The composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios and benchmarks and standards for various age/grade levels

Assessment and Adaptation of Literacy Instruction – The importance of individualizing the literacy program to address the needs and strengths of learners; a variety of valid and efficient language arts assessments appropriate for different purposes; the observable characteristics of a variety of reading and writing difficulties; strategies for modifying literacy instruction to support the needs of individual learners, including English Language Learners (ELLs)

Performance Standards – English Language Arts:

Implements a language arts curriculum that fosters interest and growth in all aspects of oral and written literacy in order to provide students with the communication skills necessary to understand and influence their own lives and to learn about the world. Specifically, the educator:

Literacy Development through Literature and Media –

Uses a wide variety of fiction and non-fiction textual materials, including some of students' own selection, to increase students' motivation to read independently for information, pleasure and personal growth

Selects and reads quality literature aloud and applies tools of literary analysis to the facilitation of discussions of central themes and ideas within literature and non-print media

Uses active instructional strategies to promote various dimensions of oral language development, and to facilitate critical analysis and interpretation

5440-19 Middle Grades (Cont'd)

Teaches students to distinguish between fact, opinion, and interpretation, and how to analyze and judge the credibility of print and non-print communications

Models, fosters, and teaches active listening in order to enable thoughtful, equitable, and respectful classroom discourse

Implements strategies to include parents as partners in the literacy development of their children

Models and teaches the elements of effective verbal and non-verbal communication

Language and Word Study –

Teaches students to use syntactic, semantic, and graphophonemic cues to identify and spell words

Employs effective instructional strategies for the development of a broad, independent vocabulary

Reading Comprehension and Fluency –

Provides explicit instruction in how to flexibly use pre-, during, and post-reading cognitive strategies to understand, analyze, and interpret a variety of types of texts

Employs a range of instructional approaches to support comprehension across the content areas

Uses instructional strategies to build or strengthen fluency

Written Expression –

Organizes and implements a writing portfolio program that promotes high-quality writing by including a variety of instructional strategies and topics to teach purposes, structures, and composition

Uses required writing rubrics and benchmarks for assessing student writing, and teaches students to use these to analyze their own writing

Models and teaches appropriate grammar, usage, and mechanics

Assessment and Adaptation of Literacy Instruction –

Uses a variety of valid assessment strategies to regularly evaluate students' progress in all of the individual dimensions of literacy development

5440-19 Middle Grades (Cont'd)

Uses the results of literacy assessments to adjust and/or target instruction, to flexibly group students, when needed, and to appropriately match students with reading material

Additional Requirements:

A minor in English or Comparative Literature, or the equivalent in undergraduate and/or graduate coursework

Knowledge Standards – Mathematics:

Demonstrates knowledge of mathematical content, concepts, and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*, including:

National Council of Teachers of Mathematics (NCTM) process skills as vehicles for acquiring and using mathematics content knowledge

Typical misconceptions in mathematical reasoning held by early adolescent students

Specific content recommended for middle grades teachers in *The Mathematical Education of Teachers* (Conference Board of the Mathematical Sciences, 2001) including:

Numbers and Operations – Mathematics underlying the procedures used for operating on whole numbers and rational numbers; distinctions among whole numbers, integers, rational numbers, and real numbers; conversion among fractions, decimals, and percents; number and operation properties, including mental computation and computational estimation; fundamental ideas of number theory; scientific notation; use of ratios and proportions to represent qualitative relationships; inverse relationships; equations and inequalities

Algebra and Functions – Algebra as a symbolic language, as a problem solving tool, as generalized arithmetic and generalized quantitative reasoning, and as a way of modeling physical situations; variables and functions and how they can be represented; linear functions as a way of representing proportional relationships; patterns of change associated with linear, quadratic, and exponential functions; translation of information from one representation to another

Geometry and Measurement – Justification or disproof of conjectures about geometric shapes; derivation of measurement formulas; how rigid motions in the plane result in congruent figures; how similar figures result from a dilation, and the role of proportional relationships in determining similarity; connection of geometry to other topics and contexts such as nature and art; analysis and generalization of geometric patterns; conceptual underpinnings of calculus

5440-19 Middle Grades (Cont'd)

Data Analysis, Statistics, and Probability – Prediction of patterns, through theory and simulation, within simple probability models; drawing of conclusions with measures of uncertainty by applying basic concepts of statistics; applications of statistics and probability across different fields; use of technology effectively in statistical practice, including determination of which technology is appropriate for a particular problem

Performance Standards – Mathematics:

Implements a mathematics curriculum that integrates mathematical inquiry skills and mathematical content, and enables conceptual development and development of the habits of mind that support mathematical inquiry. Specifically, the educator:

Anticipates, elicits, and corrects typical errors and misconceptions in mathematical reasoning

Models the habits of mind of flexibility and perseverance that support mathematical learning

Designs and incorporates mathematical tasks/activities that enable students to investigate, explore, and discover structures and relationships; solidify basic mathematical skills; extend and generalize mathematical concepts; create and use mathematical models; apply concrete, formal, and informal strategies to solve mathematical problems; formulate and solve problems individually and collaboratively; and justify and communicate their conclusions orally and in writing

Conveys the real world applications of mathematical ideas, and the interconnections among mathematical ideas and between mathematics and other disciplines

Communicates mathematical ideas using appropriate mathematical language and representations, and teaches students to use both to communicate about mathematical ideas

Uses required mathematics scoring guides and benchmarks to evaluate student work and teaches students to use both to evaluate their own work

Integrates appropriate manipulatives and technological tools to facilitate mathematical problem solving and communication

Conveys to students how the development of mathematical theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of “old” knowledge

Conveys to students the roles and responsibilities of mathematicians with respect to social, economic, cultural, and political systems, and provides them with opportunities to actively explore the full scope of career choices available to people in mathematics

5440-19 Middle Grades (Cont'd)

Demonstrates sensitivity to inequities in mathematics teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

A minor in mathematics, or the equivalent in undergraduate and/or graduate coursework

Knowledge Standards – Social Studies:

Demonstrates knowledge of historical and social science content, concepts, and skills delineated in current national professional standards and in Vermont's Framework of Standards and Learning Opportunities, including:

Methods of historical and social science investigation and analysis, including criteria for critical evaluation of evidence and data, and use of primary sources and varied perspectives to interpret historical events and analyze public issues

The development of students' historical thinking, including common misconceptions in the historical thinking of students

History – Multiple perspectives on significant eras, developments, and turning points in ancient and modern history; causes and effects in human society; forces of historical and cultural continuity and change

Cultural Geography – An understanding of the world in spatial terms, the physical and human characteristics of places and regions, human systems, and the interaction of environment and society

Diversity, Unity, Identity, and Interdependence – Culture, including cultural identity, expressions, and universals; the origins of conflict; consequences of discrimination, stereotyping, and prejudice on individuals and groups

Citizenship – Forms of government and their underlying concepts; principles and responsibilities of democratic citizenship; principles of American federalism; origins and evolution of the concepts of equality, justice, freedom, human, and civil rights

Economics – Forms of economic systems; consequences of economic systems on people and environments

Performance Standards – Social Studies:

Implements a history and social sciences curriculum that integrates historical and social science content, concepts, and inquiry skills, and enables students to view and analyze

5440-19 Middle Grades (Cont'd)

communities, societies and/or cultures, and events as apprentice historians and social scientists, to interpret social issues, and to participate purposefully toward the common good in society. Specifically, the educator:

Chooses developmentally-appropriate activities to teach historical/social science concepts and processes

Models how historians, geographers, and other social scientists view, analyze, and interpret the world

Provides opportunities for students to examine and interpret historical and contemporary events and issues through active learning strategies such as research, role-play, debate, and discussion

Provides opportunities for students to participate in community-based investigations and service projects, and to access and use local resources

Creates or adopts instructional and assessment tasks that teach students to analyze and interpret primary and secondary sources of all types, identify webs of cause and effect, and differentiate between fact, opinion, and interpretation

Provides opportunities for students to use historical, geographical, and social science research methods, tools, and technologies

Teaches students how to read and understand historical narratives, issue analyses, and persuasive essays, and how to write well-crafted pieces in these genres, including preparing portfolio pieces

Models respect for students' diverse opinions and backgrounds in all classroom interactions, and teaches students how to engage in civil discussions about controversial issues

Additional Requirements:

A minor in history, political science, economics, geography, or a combination thereof, or the equivalent in undergraduate and/or graduate coursework. (Coursework in cultural anthropology and non-Western area studies may be counted toward geography.)

Knowledge Standards – Science:

Demonstrates knowledge of scientific content, concepts, and skills delineated in current national professional standards and in *Vermont's Framework of Standards and Learning Opportunities*, including:

5440-19 Middle Grades (Cont'd)

Scientific method, investigatory processes and procedures, the nature of theory, roles and responsibilities of scientists, history of science

Typical scientific misconceptions or naïve ideas held by early adolescents

Life Sciences – Cell structure and function; anatomy and physiology; molecular basis of heredity; biological evolution; interdependence of organisms; matter, energy and organization in living systems; behavior of organisms

Physical Sciences – The structure of atoms; structure and properties of matter; chemical reactions; motion and forces; conservation of energy and increase in disorder; interactions of energy and matter

Earth, Environmental, and Atmospheric Sciences – The Earth as an integrated system of chemical, physical and biological processes interconnecting the geosphere, hydrosphere, atmosphere, and biosphere; the origins and evolution of the Earth, solar system, and universe, and forces effecting and shaping them over time

Living and Non-Living Systems – The concept of living and non-living systems as collections of interrelated parts and interconnected systems; continuity and change in living and non-living systems from the micro to the macro scale; how personal and collective actions can affect the sustainability of interrelated systems

Performance Standards -- Science:

Implements a science curriculum that integrates scientific inquiry skills and science content, and enables conceptual development and development of the habits of mind that support scientific inquiry. Specifically, the educator:

Anticipates and elicits the naïve scientific ideas, emerging concepts, and/or misconceptions that students are likely to have prior to instruction

Models the skills and habits of mind inherent in scientific inquiry

Asks scientific questions that engage students and helps them to formulate meaningful scientific questions of their own

Designs and implements investigations and assessments that engage students in experimental design, data collection, data analysis, and problem solving, and that provide them with frequent interactions with the natural world as a regular part of the science program

Creates opportunities for students to collaboratively design and implement scientific investigations, and to present and discuss the results of their investigations

5440-19 Middle Grades (Cont'd)

Organizes equipment, work, and learning spaces so that scientific investigations are carried out safely in accordance with state and national safety guidelines

Teaches forms of scientific communication including how to write clear, well-organized science reports; how to read sources of scientific information; and how to understand and use representation and scientific notation

Integrates physical, mathematical, scientific, and technological tools appropriate to students' ages and abilities in order to facilitate scientific inquiry

Conveys to students how the development of scientific theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of "old" knowledge

Conveys to students the roles and responsibilities of scientists with respect to social, economic, cultural, and political systems, and provides them with opportunities to actively explore the full scope of career choices available to people in the sciences

Demonstrates sensitivity to inequities in science teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

A minor in biology, chemistry, physics, or earth/environmental/atmospheric sciences, or a combination thereof, or the equivalent in undergraduate and/or graduate coursework

5440-06 Modern and Classical Languages

The holder is authorized to teach a modern (including American Sign Language) and/or classical language(s) in grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of foreign language and language education concepts and skills delineated in current national professional standards and in Vermont's *Framework of Standards and Learning Opportunities*, including:

Proficiency in speaking, reading, writing, and aural comprehension in the target language(s)

For American Sign Language:

Proficiency in receptive and expressive language

The structure, phonetic system, and different socio-linguistic levels of the target language(s)

For American Sign Language:

The application of concepts of phonology, syntax, morphology, and pragmatics to the teaching of American Sign Language

The practices, products, and perspectives of the target culture(s), including a broad general foundation in the arts, history, geography, economics, and literature of the target culture(s)

For American Sign Language:

Knowledge of the history, social structure, artistic, and literary contributions of the Deaf culture

The ability to interpret contemporary lifestyles, customs, and cultural patterns of the Deaf culture in American Sign Language-speaking communities

The individual and societal advantages of foreign language learning

The developmental process of second language acquisition at the early childhood/elementary and/or middle/secondary levels

Research-based instructional methods and strategies that develop foreign language communication skills as a process and articulate continuous sequences of instruction across the early childhood/elementary and/or middle/secondary instructional levels

Performance Standards:

5440-06 Modern and Classical Languages (Cont'd)

Implements a foreign language curriculum that provides students with opportunities to achieve the cultural and linguistic outcomes specified in current national professional standards and in Vermont's *Framework of Standards and Learning Opportunities*. Specifically, the educator:

Applies knowledge of research-based methods and strategies for teaching foreign languages and cultures to the design of developmentally-appropriate learning activities for students with diverse learning styles, interests, and linguistic backgrounds

Uses authentic documents and materials (such as music, art, food, literature, or newspapers) in order to develop students' understanding and appreciation of the target culture's history, geographical regions, values, and customs

Selects and incorporates instructional media appropriate to foreign language learning, including authentic print and electronic materials from the target culture

Focuses teaching on the development of cross-cultural and linguistic competence through critical thinking and communicative activities

Integrates classroom curricular themes with the foreign language curriculum (early childhood/elementary)

Advocates for all students to learn a foreign language and culture at the earliest possible age

Additional Requirements:

A major in a modern or classical language, or the equivalent in undergraduate and/or graduate coursework. (Native speakers and speakers of ASL are exempt from this requirement.)

A minimum of a practicum, or the equivalent, in modern and classical languages at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in modern and classical languages at both the PK-6 and 7-12 instructional levels is required.

5440-12 Music

The holder is authorized to teach music in grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of music and music education concepts and skills delineated in current national professional standards and in Vermont's *Framework of Standards and Learning Opportunities*, including:

The processes and stages of children's and/or adolescents' musical and aesthetic development

The historical development and role of music in contemporary and past cultures

Music theory, including an understanding of composition, arranging, and improvising, as well as music as a fundamental expression of human emotion and form of communication

Philosophies and methods of music education (e.g., Dalcroze, Gordon, Kodaly, Orff, Suzuki)

Principles, purposes, and design of assessments in music, including the concepts of critical response and self-assessment

The five elements of music (i.e., melody, harmony, rhythm, tempo, and timbre) and the two elements of musical analysis (i.e., instrumentation and vocal analysis)

Sight-reading and sight-singing skills

Expertise in one or more of the following areas as demonstrated by public performance: vocal, instrumental, and/or music composition

Ability to perform simple accompaniments in a second performance area

Basic command of a range of wind, string, brass, and percussion instruments

Performance Standards:

Implements a music curriculum that enables students to experience the beauty, emotional intensity, and thoughtfulness of music through making, studying, interpreting, and evaluating music. Specifically, the educator:

Demonstrates comprehensive performance and musicianship skills and specialized knowledge in general, choral, or instrumental music, as they provide students with quality, sequential instruction in music

5440-12 Music (Cont'd)

Applies effective techniques for conducting and rehearsing with small and large groups

Selects a developmentally-appropriate music repertoire for study and performance

Creates an emotionally and physically safe environment where artistic risk-taking, self-exploration, collaboration, discovery, experimentation, problem solving, and reflection can take place

Creates, selects, and adapts a variety of resources, materials, and technologies that support students as they learn through and about music

Models the use of the vocabulary of music to describe and respond to musical works

Creates opportunities for students to learn tolerance and respect for others through instruction in multicultural music

Uses a variety of appropriate methods, including student self-assessment, to assess students' musical development, and uses assessment results to evaluate the effectiveness of one's teaching and curriculum

Adapts materials, tasks, etc. to ensure the full access of all students, including special needs students, to a rich music education

Integrates classroom curricular themes with the music curriculum (early childhood/elementary)

Advocates for a rich music education for all students at the earliest possible age

Additional Requirements:

A major in music, or the equivalent in undergraduate and/or graduate coursework

A minimum of a practicum, or the equivalent, in music education at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in music education at both the PK-6 and 7-12 instructional levels is required.

5440 - 25 Online Teaching Specialist (adopted 4/24/13)

The holder is authorized to teach students from a distance who are enrolled in online coursework. This endorsement is an add-on endorsement only and is limited to holders of pK-12 teaching endorsements. The holder's area of online instruction and instructional level shall be indicated on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of how to plan, deliver, and evaluate online instruction as delineated in current national professional standards and as reflected in Vermont's Framework of Standards, Grade Level Expectations, and Common Core State Standards. Specifically, the educator understands and/or knows:

Technology Skills- A range of technologies relevant to the online learning environment both existing and emerging, that effectively support student learning and engagement in the online environment

Teaching in an Online Environment- Best practices of effective online instruction and strategies that promote creativity and innovation in virtual environments

Legal and Ethical Practice- Legal and ethical online behavior related to technology use

Accommodating Students with Special Needs- How to adapt curriculum, instruction, and assessments to accommodate students with special needs in the online environment

Online Assessments- How to design, develop, and implement online assessments to accurately measure student learning and how to evaluate relevant data

Performance Standards:

Implements a comprehensive, standards-based curriculum in subject area of educator's endorsement that incorporates technology standards and enables students to acquire content knowledge and skills. Specifically, the educator:

Uses a range of technologies relevant to online learning environments to support student learning that are appropriate to students' ages and abilities

Establishes clear expectations, employs effective, prompt communication, and provides regular feedback to students online

Creates personalized, online learning environments for students that encourage active learning, real- world application, interaction, participation, and collaboration

5440 - 25 Online Teaching Specialist (Cont'd)

Models and manages safe, legal, and ethical online behavior

Adapts curriculum and instruction to meet diverse student needs in the online environment, including accommodating students with special needs

Organizes materials, instruction, and procedures to meet standards-based learning goals

Creates and implements a variety of assessments in online learning environments in ways that ensure academic integrity of the instruments and procedures and that accurately demonstrate student learning

Models collaborative knowledge construction and reflection by engaging in learning with students, colleagues, and others in face-to-face and virtual environments

Additional Requirements:

A minor, or the equivalent, in online instruction

A minimum of a practicum, or the equivalent, in online instruction in area of instructor's teaching endorsement.

5440-08 Physical Education (Revised 3/20/13)

The holder is authorized to teach physical education in grades PK-6, 7-12, or PK-12, as specified on the endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of physical education concepts and skills delineated in current national professional standards and in personal development and skills in *Vermont's Framework of Standards and Learning Opportunities*, including:

Foundations:

Human development, including the typical progression of early childhood through adult growth and development within each domain and age appropriate indicators of physical health and wellness for each stage of development

Biophysical and social-psychological concepts fundamental to skillful movement, physical activity, and physical fitness

Historical, philosophical, and sociological perspectives on all aspects of physical fitness education

The definition of a “physically educated person”

Skills and competence in a variety of physical and recreational activities

Equity, Fairness, and Diversity:

The effects of age, gender, socioeconomic status, and culture upon physical activity preferences and participation

Strategies for modifying instruction in order to be sensitive to students’ diverse physical abilities, skills, learning styles, and prior experiences

Common areas of exceptionality and techniques for assisting, adapting, and extending physical education learning experiences to meet the needs of all students

Curriculum, Planning, and Instruction:

Selection, planning, and implementation of developmentally-appropriate curriculum based on current social and cultural problems, national and state standards, and the community and its offerings and needs

5440-08 Physical Education (Cont'd)

Developmentally-appropriate strategies for teaching movement concepts, skills development, and personal fitness

Principles of effective behavior management for a physical education setting

Effective verbal and non-verbal communication techniques to encourage and enhance student performance

The cross curricular links between and among the physical education curriculum and other subjects

Assessment:

The appropriate use and interpretation of a variety of formal and informal assessment techniques and strategies in physical education

Collaboration:

Community resources to enhance physical activity and wellness opportunities, including specific resources for students with special needs

Performance Standards:

Designs and implements a developmentally-appropriate, standards-based curriculum that incorporates movement concepts, critical elements of motor skill acquisition and development; performance concepts and strategies related to skillful movement and physical activity; and strategies to help students develop responsible and healthy personal and social behaviors. Specifically, the physical educator:

Curriculum, Planning, and Instruction:

Designs and implements instruction that is sensitive to students' diverse physical abilities and skills, interests, learning styles, and experiences

Provides learning experiences that integrate knowledge and skills from multiple subject areas, encourages healthy risk-taking and collaborative and individual goal setting, and facilitates students' problem solving and critical thinking skills by asking questions and posing scenarios

Uses specific approaches to foster positive group interactions and emotional and psychological safety, including cooperative and team building activities

Organizes, allocates, and manages resources to provide active and equitable learning experiences

5440-08 Physical Education (Cont'd)

Develops an effective behavior management plan appropriate to a physical education setting

Organizes equipment, work, and learning spaces so that physical education activities are carried out safely in accordance with state and national safety guidelines

Adapts a variety of activities for special needs students

Assessment:

Uses a variety of appropriate authentic, traditional, and standards-based assessment techniques to assess student understanding and performance, provide feedback, and communicate student progress formatively and summatively

Collaboration:

Communicates to students, parents, staff, and the community the importance of lifelong physical activity in the development and wellness of individuals of all ages

Gathers information and identifies resources to support students with special needs

Collaborates with school personnel to ensure that the school environment and program are safe and promote the health of students and staff, and develops, supports, implements, and evaluates a Coordinated School Health Program (CSHP)

Additional Requirements:

A minimum of a practicum, or the equivalent, in physical education at the elementary (PK-6) or middle/secondary (7-12) instructional level, depending on the authorization sought. For the full PK-12 authorization, a minimum of a practicum, or the equivalent, in physical education at both the PK-6 and 7-12 instructional levels is required.

Current certificates in cardiopulmonary resuscitation (CPR), Automated External Defibrillator (AED), and first aid

5440-78 Reading/English Language Arts Coordinator

The holder is authorized to provide leadership in the implementation of reading instruction and assessment practices that are informed by research, including coordination and management of all aspects of the school's or district's reading program and guidance of professional development in the area of reading, in order to help all students achieve standards. This endorsement is limited to those who hold or who are eligible to hold the Reading/English Language Arts Specialist endorsement.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

The Reading/English Language Arts Coordinator must be eligible to hold the Reading/English Language Arts Specialist endorsement through demonstration of each of the knowledge and performance standards required for that endorsement. In addition, the Reading/English Language Arts Coordinator understands concepts and demonstrates skills essential to systemic leadership of reading instruction and assessment, including:

Knowledge Standards:

Research design and program evaluation

Principles and models of effective needs- and standards-based staff development programs

Planning and administration of a program of reading instruction and assessment, including purposes of and eligibility criteria for the various federal and state supplemental and intervention programs designed to help students with reading and writing problems

Federal, state, and local laws, regulations, and policies related to reading instruction and assessment

Performance Standards:

Curriculum, Instruction, and Assessment:

Collaborates with teachers and administrators to develop and implement a school- or district-wide program of literacy instruction and assessment that is research- and standards-based and aligned with other school and/or district improvement efforts

Selects materials, technologies, and tools to support the school's or district's literacy program

Implements literacy support programs to enhance literacy development throughout the school community

Communicates information about school- or district-wide literacy program and progress to administrators, other staff members, school board members, parents, and the community,

5440-78 Reading/English Language Arts Coordinator (Cont'd)

including delineating expectations for students and best practices in instruction and assessment at different grade levels

Professional Development:

Designs and implements an effective needs- and standards-based staff development program that is focused on the core areas of effective classroom pedagogy – content, context, methodology, and assessment

Research and Program Evaluation:

Develops and implements comprehensive program evaluation processes to evaluate student and staff progress toward the goals of the literacy instruction and assessment program

Collaborates with administrators and teachers to use program evaluation results to inform on-going curriculum, instruction, and assessment, and professional development planning

Obtains and interprets literacy research that includes a range of methodologies (e.g., ethnographic, descriptive, experimental, historical), and conducts and supports classroom-level research projects

Additional Requirements:

A Master's degree

A minimum of 21 credits in reading/English language arts

A minimum of a practicum, or the equivalent, in reading instruction and assessment

5440-76 Reading/English Language Arts Specialist

The holder is authorized to function as a school-wide resource to support teachers to implement reading instruction and assessment practices that are informed by research, and to provide instruction in reading to students in grades PK-12. This endorsement is limited to those who hold or who are eligible to hold endorsements in early childhood, elementary education, middle grades, the secondary content areas, special education, or English as a Second Language.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of major theories and research-based principles and processes underlying language and literacy development, the components of effective literacy instruction and assessment at the student and school levels, a variety of literacy difficulties and intervention strategies, and strategies for facilitating best practice school-wide, as delineated in current national professional standards. Specifically, the educator understands and/or knows:

FOUNDATIONS:

Reading Comprehension and Fluency:

Reading as the complex cognitive process of constructing meaning through the interaction of the reader's existing knowledge, the information suggested by the text, and the context of the reading situation

Components of reading comprehension, including strategies, vocabulary, and background/conceptual knowledge; ways that readers demonstrate comprehension; the distinction among independent, instructional, and frustration levels for individual students

Components of fluency, and appropriate ranges of reading fluency rates at different grade levels

Individual and textual factors that influence comprehension

The particular features of narrative and expository text across genres; and how readers' awareness of these features supports comprehension

Development of early and emergent literacy, including "concepts of print"

Literature and Media:

A wide variety of quality, age-appropriate literature across genres, eras, cultures, and subcultures, including texts that support a range of reading abilities (e.g., decodable texts, leveled books) and resources for selecting and reviewing new materials

5440-76 Reading/English Language Arts Specialist (Cont'd)

Critical theories of children's literature

Literary elements and strategies for analysis of literature and non-textual media

Language Development:

The phonemic, morphemic, semantic, syntactic, and pragmatic systems of language and their relationship to the reading and writing process

Processes, principles, and dimensions of oral language acquisition and the relationship between oral language development and literacy development

Components of phonological processing

The development of the phonological skills essential to fluent decoding

The impact of physical, emotional, and cultural factors on language development and acquisition of reading and writing

Role of metacognition in reading, writing, listening, speaking, and representing visually

Elements of effective verbal and non-verbal communication

The process of second language acquisition, benefits and challenges second language acquisition poses to students' reading and writing development, and distinctions between language learning issues and learning disabilities

Word Study:

Written language as a symbolic system based on the alphabet and orthography/spelling

The pronunciation of English phonemes and their graphemes

The developmental stages of spelling and morphological analysis

Speech to print correspondence at the sound, syllable pattern, and morphological levels, including predictability and patterns in English spelling, and grammatical endings and prefixes, suffixes, and roots

The differences among approaches to teaching phonics

Vocabulary development and its relationship to literacy acquisition

5440-76 Reading/English Language Arts Specialist (Cont'd)

Relationships among phonology, decoding, orthography, fluency, vocabulary, and comprehension

Written Expression:

The writing development continuum from pre-writers through adults

Dimensions of quality writing, types of writing, the composing processes that writers use, and planning strategies most appropriate for particular kinds of writing

The conventions of written English

Uses of writing portfolios and approaches to assessing student writing, including appropriate benchmarks and standards for various ages/grade levels

INDIVIDUAL DIFFERENCES AND INDIVIDUALIZED INSTRUCTION:

The characteristics of and multiple causes of reading and writing difficulties, including how environmental/contextual and physiological/neurological factors can influence language, reading, and writing development

How contextual factors in the school can influence student learning and reading

A variety of individual and group instructional approaches, interventions, and supplemental programs to address specific difficulties in language, reading, and writing skills

ASSESSMENT:

Indicators of proficiency or difficulty in the various component areas of reading

Purposes for assessment in English language arts, including screening, diagnosis, evaluation of outcomes, guidance of instruction, and progress monitoring, and a range of valid and reliable assessment tools appropriate to each purpose

Ability to administer and interpret formal and informal assessments appropriate for different purposes

The importance of a feasible, comprehensive, and ongoing reading/language arts assessment program to evaluate student and school achievement of standards, and a variety of potential approaches to accomplish this

CONSULTATION AND COLLABORATION:

5440-76 Reading/English Language Arts Specialist (Cont'd)

Principles and practices of effective collaboration and consultation in learning environments

Purposes of and eligibility criteria for various local supplemental and intervention programs designed to help students with reading and writing difficulties

Appropriate roles and responsibilities of paraeducators and their supervision

RESEARCH AND EVALUATION:

How to interpret, analyze, and apply research findings to instructional practice

Strategies for classroom-based literacy research

Appropriate criteria for determining the effectiveness of reading programs, including comprehensive programs, supplemental, and intervention programs

Performance Standards:

The Reading/English Language Arts Specialist provides individualized and small group reading and writing support and instruction to students based upon their needs; collaborates with other educators to plan individualized programs for students with reading or writing disabilities; and assists with school-wide implementation of best practices in reading instruction and assessment, including selection of materials, application of research to practice, provision of professional development in the area of reading, and evaluation of the effectiveness of the school's literacy program. Specifically, the educator:

INDIVIDUALIZED INSTRUCTION:

Based on student needs, supports students both in and out of their regular classrooms by explicitly and systematically teaching one or more of the components of literacy

Uses a wide variety of teacher and student-selected texts, including authentic and extended texts, appropriate to individual students' reading levels, in order to increase students' skills, sense of self-efficacy as readers, and motivation to read

Appropriately selects from a variety of active and engaging individual and/or small group instructional approaches, supplementary programs, or interventions, and adjusts pace and degree of explicit instruction, in order to meet the needs of individual students

Uses remedial and tutorial programs which have been validated by research

ASSESSMENT:

5440-76 Reading/English Language Arts Specialist (Cont'd)

Uses the results of literacy assessments to target instruction, to flexibly group students for small groups when needed, to appropriately match students with reading material, and to assess curriculum-specific learning outcomes as they relate to the students learning and program effectiveness

Uses a range of progress monitoring tools to regularly evaluate individual students' progress, and adjusts approaches, interventions, and supplementary instruction, depending on student progress

CONSULTATION AND COLLABORATION:

Helps to develop individual educational plans for students with learning disabilities related to literacy

Implements and evaluates systemic strategies to include parents as partners in the literacy development of their children and adolescents

Collaborates with classroom teachers to support their implementation of research-based best practices in all aspects of literacy instruction and assessment, including modeling or co-teaching of specific instructional approaches when appropriate; joint problem solving; and/or assistance with the acquisition of resources

Facilitates the review and selection of instructional materials for literacy instruction, including those that are technology based

RESEARCH AND EVALUATION:

Interprets research findings related to the improvement of reading instruction and assessment and communicates these findings to colleagues and the wider community in order to improve classroom practice

Communicates information about school-wide literacy program and progress to administrators, other staff members, school board members, parents, and the community

Assists with the program evaluation process to gauge the effectiveness of the school's literacy curriculum using a variety of appropriate indicators of effectiveness

Facilitates and supports classroom-level research in literacy instruction

Additional Requirements:

A minimum of 18 credits in reading/English language arts

A minimum of a practicum, or the equivalent, in reading instruction and assessment

5440-64 School Counselor

The holder is authorized to provide school counseling services in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of school counseling concepts and skills delineated in current national professional standards and personal development concepts and skills reflected in Vermont's Framework of Standards and Learning Opportunities. Specifically, the school counselor understands:

Human Development:

Human development, including the typical progression of early childhood through adult growth and development within each domain and age-appropriate indicators of social and emotional well being for each stage of development

Developmental Guidance:

Purposes and strategies for developmental guidance programs, including developmental theories, educational planning methods and processes, classroom management skills, group guidance approaches, conflict mediation and resolution strategies, and parent education strategies

Counseling:

Principles, theories, and techniques of individual, group, and family counseling, including how to modify counseling practices to accommodate students with special needs

The student as the primary client

Indicators of serious social and emotional issues related to healthy development (such as self mutilation, eating disorders, harassment, grief, trauma), including their impact on students, families, peers, schools, and community systems, and when and to whom to refer students and their families for more intensive interventions

Emergency crisis intervention services within and outside the school district

Career Exploration and Transitions to Post Secondary Education and Work:

Career development theories and practices, strategies for guiding students to explore career and lifestyle choices, and decision-making skills relative to education and work

5440-64 School Counselor (Cont'd)

Transition issues at various age levels

Changes in technology and the impact of these changes on learning and work

Range of college and post secondary training opportunities, and resources available to support students' choices

Professional Issues:

Professional and ethical issues in school counseling

Legal aspects of counseling and school law as they relate to counselors and the counselor's role within the educational system

Assessment:

Appropriate interpretation of a variety of educational and psychological assessment data

Consultation and Collaboration:

Schools as systems

Processes of social and cultural change with respect to various racial, gender, and ethnic groups, and knowledge of and respect for differing cultural and lifestyle patterns, including an understanding of various forms of family relationships

How to work cooperatively and respectfully with all families to support students' learning and development

Principles and practices of effective collaboration and consultation in learning environments

Development, implementation, and evaluation of a comprehensive Pre-K to 12 program of school counseling services in collaboration with administrators, staff, parents, and other community members

The school counselor's roles and responsibilities relative to the development and implementation of educational plans for students

Purposes, elements, and requirements of the CSHP (Coordinated School Health Program)

Performance Standards:

5440-65 School Counselor (Cont'd)

School counselors strengthen and facilitate the educational process by providing developmental guidance instruction to enable all students to acquire the attitudes, knowledge, and skills that contribute to school success and healthy development; providing individual and/or group counseling to students in need; and collaborating with other school personnel to promote a healthy learning environment for students and staff. Specifically, the school counselor:

Developmental Guidance:

Designs, implements, and evaluates standards-based developmental guidance programs to help all students develop self-understanding and personal competence, including the ability to make healthy and informed choices, to develop productive and satisfying relationships, and to resolve conflicts effectively

Counseling:

Identifies, in collaboration with teachers and parents, problems that may be interfering with the learning and healthy development of individual students and that may require counseling interventions

Facilitates the student's self-awareness, self-understanding, self-advocacy, and behavioral change, as they relate to school adjustment and performance

Coordinates with principal and superintendent in the development of an emergency crisis intervention plan which includes police, community, public safety, and emergency response personnel

Uses de-escalation techniques with students in danger of hurting themselves and/or others

Provides short-term counseling to individuals and groups of students to assist them in dealing with personal, social, developmental, and educational issues

Career Exploration and Transitions to Post Secondary Education and Work:

Guides students in career and higher education exploration, decision-making, and planning

Assessment:

Assists students and parents to understand the results of psychological and educational assessments in order to support students in making effective personal, educational, social, and career decisions

Consultation and Collaboration:

5440-66 School Counselor (Cont'd)

Serves as a liaison between teachers, parents, support personnel, and community resources to facilitate successful student development

Participates on a variety of teams supporting individual students

Collaborates with school and community personnel to ensure that the school environment and program are safe and health-promoting and to assist in the development, support, implementation, and evaluation of a Coordinated School Health Program (CSHP)

Works with all students and their families in ways that respect diverse backgrounds and interests

Makes referrals to other professionals, as appropriate

Additional Requirements:

Master's degree, with a concentration in school counseling or the equivalent

A supervised internship experience (600 clock hours) in counseling with a minimum of 60 hours of experience in school counseling at **both** the elementary (PK-6) and middle/secondary (7-12) levels, under the supervision of a licensed school counselor

5440-65 School Nurse (Revised 3/20/13)

The holder is authorized to provide school health services in grades PK-12 and to collaborate with teachers and administrators to integrate health and wellness knowledge and skills throughout the school and curriculum.

In order to qualify for this endorsement the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge in general nursing and school nursing concepts and skills delineated in current national professional nursing and school nursing standards and health concepts and skills delineated in *Vermont's Framework of Standards and Learning Opportunities*, including:

Pediatric, community health, emergency, adult, and mental health nursing

Current state and federal laws, regulations, and procedures governing identification, referral, healthcare, privacy issues, placement, and accommodation of students

Learning theory as it applies to health behavior

Health promotion strategies for individuals, families, communities, and health risk factors, including the Centers for Disease Control's Priority Risk Behaviors³

Family, interpersonal relationships, cultural, psychological, sociological, emotional, and environmental factors that influence health behaviors

Family and group dynamics

Effective organization, management, communication, and leadership skills

The process and skills for problem solving, decision making, and conflict resolution

The Vital Results for personal development in *Vermont's Framework of Standards and Learning Opportunities*

Professional and ethical issues in general nursing and school nursing

The Vermont *Standards of Practice: School Health Services*

Purposes, elements, and requirements of the Coordinated School Health Program (CSHP) model

Performance Standards:

5440-65 School Nurse (Cont'd)

School nurses strengthen and facilitate the educational process by improving and protecting the health status of students and staff; identifying, assisting, overseeing, and collaborating with other school personnel in the removal or modification of health-related barriers to the learning of individual students; and collaborating with other school personnel to promote health education and a healthy learning environment for students and staff. Specifically, the school nurse:

Provision of Health Services:

Organizes, provides, and/or oversees the provision of health assessments for individual students and referrals for health management or treatment

Develops, provides, and/or oversees direct health services and/or health counseling to assist students, families, and staff in making informed decisions on choices related to health

Develops, provides, and/or oversees implementation of student healthcare plans, health management protocols, and policies for all students with health need, and recommends modifications to the school program

Interprets and/or oversees the interpretation of a student's health status to parents/guardians and school personnel

Identifies or assists in identification, refers, and follows through on child abuse and neglect as required by law

Identifies and refers students for psychosocial and substance abuse issues and evaluates interventions

Preventative Health:

Maintains, evaluates, interprets, and/or oversees the review of individual student health records

Develops, implements, and/or oversees the implementation of procedures and protocols for the prevention and management of injuries and acute and chronic illness

Promotes and assists in the control of communicable diseases through development and/or implementation of early detection and preventative immunization programs, surveillance and follow up of contagious diseases, and reporting, as appropriate, to the Vermont Department of Health

Provides health information to individuals, school-related groups, student classes, and community organizations

5440-65 School Nurse (Cont'd)

Collaboration with Other School and Community Personnel:

Participates as the health professional member on a variety of teams, including the child education evaluation teams that develop Individual Education Programs (IEPs), 504 Plans, Educational Support Team (EST) recommendations, and other specialized plans for students

Acts as the case manager of 504 Plans for students with health issues

Coordinates and/or collaborates with other school and community personnel to ensure a safe and health-promoting school environment and program for students and staff

Coordinates and/or collaborates with other school and community personnel to develop, support, implement, and evaluate a Coordinated School Health Program (CSHP)

Serves as a resource to other teachers and administrators in health education and as a member of the health curriculum committee

Coordinates school health activities and serves as a liaison on health issues between parents/guardians, the school, and the community

Acts as a resource person in promoting health careers

Develops protocols for, trains, and oversees those school personnel delegated to carrying out health service activities in accordance with Vermont *Standards of Practice: School Health Services*

Collaborates in the development of school policies concerning health issues and develops procedures concerning health issues in accordance with school policies

Additional Requirements:

Bachelor's or Master's degree from a nursing program accredited by the National League for Nursing (NLN) or the Commission on Collegiate Nursing Education (CCNE)

A current license as a Registered Nurse (RN) in the state of Vermont

Current certificates in cardiopulmonary resuscitation (CPR), Automated External Defibrillator (AED), and first aid

Four years of clinical nursing experience beyond nursing education

Completion of an educational orientation program provided through the Department of Education and based on the requirements for delivery of health services as defined in the Vermont *School Quality Standards* and the Vermont manual titled *Standards of Practice: School Health Services*

5440-65A Associate School Nurse (Revised 3/20/13)

The holder is authorized to provide school health services in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of general nursing and school nursing concepts and skills delineated in current national nursing and school nursing standards and health concepts and skills delineated in *Vermont's Framework of Standards and Learning Opportunities*, including:

Pediatric, community health, emergency, adult, and mental health nursing

Current state and federal laws, regulations, and procedures governing identification, referral, healthcare, privacy issues, placement, and accommodation of students

Health promotion strategies for the individual and health risk factors, including the Centers for Disease Control's Priority Risk Behaviors³

Interpersonal relationships, cultural, psychological, sociological, emotional, and environmental factors that influence health behaviors

Effective organization, time management, and communication skills

Problem solving and decision making skills

The Vital Results for personal development in *Vermont's Framework of Standards and Learning Opportunities*

Professional and ethical issues in general nursing and school nursing

The Vermont *Standards of Practice: School Health Services*

Purposes of the Coordinated School Health Program

Performance Standards:

The associate school nurse improves and protects the health status of students and staff by identifying and participating in the removal or modification of health related barriers to the learning of individual students. Specifically, the associate school nurse:

Provision of Health Services:

Provides health assessments for individual students and initiates referrals to other school personnel and community health resources for health management or treatment as necessary

5440-65A Associate School Nurse (Cont'd)

Provides direct health services and/or health counseling to assist students, families, and staff in making informed decisions on choices related to health

Develops, provides, and/or oversees implementation of student health care plans, management protocols, and policies to meet health needs of students and recommends modifications to the school program

Interprets the student's health status to parents/guardians and school personnel

Identifies or assists in identification, referral, and follow through on child abuse and neglect as required by law

Identifies and refers students for psychosocial and substance abuse issues and evaluates interventions

Preventative Health:

Maintains, evaluates, and interprets individual student health records

Develops and implements procedures and protocols for the prevention and management of injury and acute and chronic illness

Promotes and assists in the control of communicable diseases through development and/or implementation of early detection programs and preventative immunizations, surveillance and follow up of contagious diseases, and reporting, as appropriate, to the Vermont Department of Health

Provides health information to individuals

Involvement with Other School and Community Personnel:

Contributes as needed as the health professional on a variety of teams, including the child education evaluation teams that develop Individual Education Programs (IEPs), 504 Plans, Educational Support Team (EST) recommendations, and other specialized plans for students

Joins with other school and community personnel to ensure a safe and health-promoting school environment and program for students and staff

Participates in a Coordinated School Health Program (CSHP)

Serves as a liaison on health issues among home, school, and community

5440-65A Associate School Nurse (Cont'd)

Develops protocols for, trains, and oversees those school personnel delegated to carrying out health service activities in accordance with Vermont *Standards of Practice: School Health Services*

Develops procedures concerning health issues in accordance with school policies

Additional Requirements:

Associate's Degree/Diploma from a nursing program accredited by the National League for Nursing (NLN)

A current license as a Registered Nurse (RN) in the state of Vermont

Current certificates in cardiopulmonary resuscitation (CPR), Automated External Defibrillator (AED), and first aid

Four years of clinical nursing experience that must include community health and pediatric nursing

Completion of an approved educational orientation program provided through the Department of Education and based on the requirements for delivery of health services as defined in the Vermont *School Quality Standards* and the Vermont manual titled *Standards of Practice; School Health Services*

5440-66 School Psychologist

The holder is authorized to provide school psychological services in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of school psychological concepts and skills delineated in current national professional standards. Specifically, the school psychologist understands:

Data-Based Decision-Making and Accountability: Strategies to assess current problem areas, strengths, and needs at the individual, group, and systems level through assessment, and methods to measure the outcomes of data-based decisions

Interpersonal Communication, Collaboration, and Consultation: Behavioral, mental health, problem solving, instructional, and other consultation models and their application; collaborative models and methods at the individual, group, and systems level

Effective Instruction and Development of Cognitive/Academic Skills: Theories of learning and cognitive development; assessment strategies and techniques, both formal and informal, to identify systemic practices, classroom interventions, and individual student strengths and needs; curriculum and standards-based instruction; instructional intervention strategies for students with cognitive delays or learning disorders; direct and indirect services to facilitate development of cognitive, literacy, and other academic skills to enhance academic learning time and self-monitoring strategies

Socialization and Development of Life Skills: Human development and social/emotional functioning; assessment and intervention techniques to determine student goals and to monitor progress toward those goals; affective curriculum and instruction related to conflict resolution and social skills

Student Diversity in Development and Learning: Individual differences, learning styles, and the ranges of abilities and disabilities; strengths and needs of students from diverse, racial, cultural, ethnic, experiential, and linguistic backgrounds

School and Systems Organization, and Climate: General education and special education federal and state laws, regulations, and mandatory reporting requirements relative to the role of the school psychologist; organizational and system-change theory; safe, supportive, and effective learning environments; current laws, regulations, and procedures governing referrals; identification, evaluation, and placement of students with disabilities

Prevention, Crisis Intervention and Mental Health: Normal and abnormal child and adolescent development; biological, familial, and social influences on behavior; counseling and

5440-66 School Psychologist (Cont'd)

intervention theories and techniques for students with a wide range of needs and disorders; crisis prevention and crisis response techniques

Home-School-Community Consultation and Collaboration: Family systems theory including family influences on student development, learning and behavior, and the community services and supports available to schools, families, and students; curriculum and intervention techniques that enhance academic achievement, parent participation and communication

Research, Program Evaluation, Data-Based Decision Making, and Accountability: Research design, statistical methods, and applied research relevant to educational programs; validated, reliable, and research-based programs/interventions; program evaluation at the individual, group, and systems level

School Psychology Practices and Development: History and foundation of school psychology as a profession; service models, roles, and functions in school psychology; ethical practices and professional issues; federal and state laws and regulations as they pertain to school policies and procedures governing school psychologists

Information Technology: Information technology and related ethical practice specific to school psychology

Performance Standards:

The school psychologist enhances and strengthens the educational process and serves students through collaboration, consultation, and intervention. School psychologists apply knowledge standards at the individual, classroom, family, and systems level. The school psychologist:

Data-Based Decision-Making and Accountability:

Applies standards-based assessment results to address questions about students' progress in learning and achievement and provides data-based recommendations for curriculum change or development through collaboration, consultation, assessment, and intervention

Defines current problem areas, strengths, and needs at the individual, group, and systems level through assessment/measurement techniques

Interpersonal Communication, Collaboration, and Consultation:

Collaborates effectively with school personnel, parents, and community providers in the planning and decision-making process at the individual, group, and systems level

Effective Instruction and Development of Cognitive and Academic Skills:

5440-66 School Psychologist (Cont'd)

Develops, implements, and evaluates appropriate cognitive and academic goals and interventions for students with specific needs

Links assessment results to interventions which enhance student learning

Socialization and Development of Life Skills:

Develops, implements, and evaluates behavioral, affective, adaptive, and social interventions to effect behavioral changes and/or social skills development

Student Diversity in Development and Learning:

Implements strategies based upon individual characteristics, strengths, needs, and cultural factors to adapt curriculum and/or school procedures that will promote successful student outcomes

School and Systems Organizations:

Collaborates with school personnel to design, implement, and evaluate school-wide policies and procedures to enhance the educational structure for students

Prevention, Crisis Intervention, and Mental Health:

Develops prevention and intervention programs that promote mental health, physical well-being, and tolerance for others

Assists schools in the development of crisis response policies, protocols, and other practices that create and maintain safe, supportive, effective learning environments

Home-School-Community Consultation and Collaboration:

Demonstrates effective collaboration with families, educators, and other members of the community to promote and to provide access to comprehensive health and mental health services to children and/or families

Provides support and assistance to parents in situations that may be new, unfamiliar, or stressful for them

Research and Program Evaluation:

Uses research design, statistical procedures, and applied research to plan and conduct investigations of existing or proposed programs

5440-66 School Psychologist (Cont'd)

Critiques curricula programs and applies research knowledge to help guide schools in the selection of curriculum or other academic/intervention programs

Applies and translates research findings into service delivery improvements for students

Defines current problem areas, strengths, and needs at an individual, group, and systems level through assessment/measurement techniques

School Psychology Practice:

Demonstrates knowledge of ethical, professional, and legal standards and incorporates these into all aspects of professional services including protecting the rights of all parties, maintaining confidentiality, and fulfilling legal requirements

Additional Requirements:

A National Association of School Psychologists (NASP) accredited Specialist Level or Doctoral degree or an American Psychological Association accredited Doctoral degree in School Psychology, or the equivalent.

For the purpose of equivalency, a minimum of 60 graduate semester hours (Specialist Level) or a minimum of 90 graduate semester hours (Doctoral Level) in the knowledge and performance domains of School Psychology is required. Individuals who have completed a minimum of 60 graduate semester hours in clinical, counseling, or industrial/organizational psychology shall follow the American Psychological Association guidelines for re-specialization in obtaining the multiple knowledge and performance domain competencies for the practice of school psychology. In addition, fulfillment of these competencies shall be demonstrated by achieving a score of 660 or higher on the Praxis II School Psychology examination administered by the Educational Testing Service (ETS) – test code 10400. **Note: passage of this examination is not required if the applicant has the NASP or APA accredited doctoral degree in school psychology.**

A NASP-approved internship, APA-accredited internship, or an internship with at least 600 clock hours in a school setting, or other appropriate educational setting with students, under the supervision of a licensed or certified School Psychologist who has a minimum of three years of post-degree experience.

An applicant who is a Nationally Certified School Psychologist (NCSP) shall be considered to have fulfilled all of the Knowledge and Performance Standards and all Additional Requirements for licensure as a School Psychologist in Vermont.

5440-54 School Social Worker

The holder is authorized to provide school social work services to students and their families in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Knowledge of the theories and stages of human growth and development, as well as knowledge of the nature of handicapping conditions

An understanding of each child in his or her family, school, and community context, and sensitivity to the variety of economic and cultural influences which affect each child's life

Knowledge of counseling theories and techniques for individuals, groups, and families, and other professional activities which enhance the facilitation of the affective domain and the learning process within a school setting

Knowledge of instructional theories, curriculum development, and program planning

Performance Standards:

The ability to apply skills and techniques of counseling and consultation with school personnel, parents, and the community to assess social, cognitive, and physical functioning toward the end of enhancing students' educational, career, and personal development

The ability to design and implement a program of preventive and development services with the school's instructional program, which assists students in decision making, self-discipline, communication, problem solving, and self-assessment

The ability to plan, implement, evaluate, and coordinate a support services plan which promotes the students' development and affects desired student outcomes

The ability to develop and maintain a student record-keeping system

Additional Requirements:

A Master's degree, in social work or the equivalent

A supervised internship experience (600 clock hours) in social work with a minimum of 60 hours of experience in school social work at **both** the elementary (PK-6) and middle/secondary (7-12) levels, under the supervision of a licensed school social worker

5440-13 Science

The holder is authorized to teach science in grades 7-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of scientific content, concepts, and skills delineated in current national professional standards and in Vermont's Framework of Standards and Learning Opportunities, including:

Scientific method; investigatory processes and procedures; the nature of theory; roles and responsibilities of scientists; history of science

Typical scientific misconceptions or naïve ideas held by early to late adolescents

Life Sciences – Cell structure and function; anatomy and physiology; molecular basis of heredity; biological evolution; interdependence of organisms; matter, energy, and organization in living systems; behavior of organisms

Physical Sciences – The structure of atoms; structure and properties of matter; chemical reactions; motion and forces; conservation of energy and increase in disorder; interactions of energy and matter

Earth, Environmental, and Atmospheric Sciences – The Earth as an integrated system of chemical, physical, and biological processes interconnecting the geosphere, hydrosphere, atmosphere, and biosphere; the origins and evolution of the Earth, solar system, and universe, and forces effecting and shaping them over time

Living and Non-Living Systems – The concept of living and non-living systems as collections of interrelated parts and interconnected systems; continuity and change in living and non-living systems from the micro to the macro scale; how personal and collective actions can affect the sustainability of interrelated systems

Performance Standards:

Implements a science curriculum that integrates scientific inquiry skills and scientific content, and enables conceptual development and development of the habits of mind that support scientific inquiry. Specifically, the educator:

Anticipates and elicits the naïve scientific ideas, emerging concepts, and/or misconceptions that students are likely to have prior to instruction

Models the skills, attitudes, and values of scientific inquiry

5440-13 Science (Cont'd)

Asks scientific questions that engage students and helps them to formulate meaningful scientific questions of their own

Designs and implements investigations and assessments that engage students in experimental design, data collection, data analysis, and problem solving, and that provide them with frequent interactions with the natural world as a regular part of the science program

Teaches students how to create strategies to solve scientific problems of increasing complexity by engaging in metacognitive analysis of their own scientific thinking

Creates opportunities for students to collaboratively design and implement scientific investigations, and to present and discuss the results of their investigations

Organizes equipment, work, and learning spaces so that scientific investigations are carried out safely in accordance with state and national safety guidelines

Teaches forms of scientific communication, including how to write clear, well-organized science reports; how to read sources of scientific information; and how to understand and use representation and scientific notation

Integrates physical, mathematical, scientific, and technological tools appropriate to students' ages and abilities in order to facilitate scientific inquiry

Conveys to students how the development of scientific theory and understanding is a historical process with continuous creation of new knowledge and refinement or rejection of "old" knowledge

Conveys to students the roles and responsibilities of scientists with respect to social, economic, cultural, and political systems, and provides them with opportunities to actively explore the full scope of career choices available to people in the sciences

Demonstrates sensitivity to inequities in science teaching and careers by incorporating specific instructional strategies that promote equity

Additional Requirements:

A major in biology, chemistry, physics, or earth/environmental/atmospheric sciences, or the equivalent in undergraduate and/or graduate coursework

A minimum of a practicum, or the equivalent, at the middle/secondary level (7-12) in science, social studies, math, or English

5440-15 Social Studies

The holder is authorized to teach history and the social sciences in grades 7-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of historical and social science content, concepts, and skills delineated in current national professional standards and in Vermont's Framework of Standards and Learning Opportunities, including:

Methods of historical and social science investigation and analysis, including criteria for critical evaluation of evidence and data, and use of primary sources and varied perspectives to interpret historical events and analyze public issues

The development of students' historical thinking, including common misconceptions in the historical thinking of students

History – Multiple perspectives on significant eras, developments, and turning points in ancient and modern history; causes and effects in human society; forces of historical and cultural continuity and change

Cultural Geography – An understanding of the world in spatial terms, the physical and human characteristics of places and regions, human systems, the interaction of environment and society

Diversity, Unity, Identity, and Interdependence – Culture, including cultural identity, expressions, and universals; the origins of conflict; consequences of discrimination, stereotyping, and prejudice on individuals and groups

Citizenship – Forms of government and their underlying concepts; principles and responsibilities of democratic citizenship; principles of American federalism; origins and evolution of the concepts of equality, justice, freedom, and human and civil rights

Economics – Forms of economic systems, consequences of economic systems on people and environments, government's role in economic policy, concepts of economic interdependence, and principles of micro and macro economics

Performance Standards:

Implements a history and social sciences curriculum that integrates historical and social science content, concepts, and inquiry skills, and enables students to view and analyze communities, societies and/or cultures, and events as apprentice historians and social scientists, to interpret social issues, and to participate purposefully toward the common good in society. Specifically, the educator:

5440-15 Social Studies (Cont'd)

Chooses developmentally-appropriate activities to teach historical/social science concepts and processes

Models how historians, geographers, and other social scientists view, analyze, and interpret the world

Provides opportunities for students to examine and interpret historical and contemporary events and issues through active learning strategies such as research, role-play, debate, and discussion

Provides opportunities for students to participate in community-based investigations and service projects, and to access and use local resources

Creates or adopts instructional and assessment tasks that teach students to analyze and interpret primary and secondary sources of all types, identify webs of cause and effect, and differentiate among fact, opinion, and interpretation

Provides opportunities for students to use historical, geographical, and social science research methods, tools, and technologies

Teaches students how to read and understand historical narratives, issue analyses, and persuasive essays, and how to write well-crafted pieces in these genres, including preparing portfolio pieces

Models respect for students' diverse opinions and backgrounds in all classroom interactions, and teaches students how to engage in civil discussions about controversial issues

Additional Requirements:

A major in history, political science, economics, or geography, or the equivalent in undergraduate and/or graduate coursework (Coursework in cultural anthropology and non-Western area studies may be counted toward geography credits.)

A minimum of a practicum, or the equivalent, at the middle/secondary level (7-12) in science, social studies, math, or English

5440-82 Special Educator

The holder is authorized to provide specialized instruction and intervention services, including case management, in any public education setting, to students in grades K-8 and/or grade 7 through age 21, as specified on the endorsement. The holder may also provide comprehensive evaluation and Individual Education Program (IEP) development services with professional and technical assistance from a Consulting Teacher or Director of Special Education. The holder may provide instruction to students who are visually impaired, Deaf, or who have intensive special needs as those terms are defined in federal regulations pertaining to special education eligibility, in consultation with a Teacher of the Blind and Visually Impaired, Teacher of the Deaf and Hard of Hearing, or Intensive Special Education Teacher.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of human development including the implications of a variety of delays, disorders, and disabling conditions for learning and development; appropriate procedures and strategies for identifying the needs and supporting the learning and development of individuals with special needs; and procedural, consultation/collaboration, and case management knowledge and skills essential to implementation of an effective educational support program, as delineated in current national professional standards. Specifically, the educator understands:

Foundations:

Typical and atypical development at the early childhood through early adolescent (for grades K-8) or early adolescent through adult level (for grade 7 through age 21) within each domain, including the wide variation in how individuals learn and typically develop, and the variety of economic, social, and cultural influences which affect each student's life

The interaction of primary language, culture, and familial background with an individual's special needs

The key roles of the special educator as teacher, advocate, consultant, facilitator, and collaborator within the educational support system

The philosophical, ethical, historical, and legal foundations of special education, including the evolution of key litigation, legislation, and regulations affecting special education

Current models and theories that form the basis of special education practice

Current state and federal laws, regulations, and procedures governing referral; identification/evaluation; eligibility determination; Individual Education Program (IEP) development, implementation, and monitoring; and placement of students with disabilities

5440-82 Special Educator (Cont'd)

Professional and ethical standards of practice

Program Development, Consultation, and Collaboration:

Characteristics, processes, and roles associated with effective collaboration, teaming, consultation, facilitation, and communication within school, family, and community systems

Family systems theory and principles of family-centered practice, including how to work cooperatively and respectfully with all families to support children's learning and development

Strategies for effective group facilitation and leadership

Local, state, and community resources, service delivery systems, and systems of care available to support students and their families

The different roles of the various specialized therapeutic service providers (e.g., OT's, PT's, SLPs) available to support students with disabilities

Roles and responsibilities of paraeducators and their supervision

Assessment:

The comprehensive evaluation process, including legal aspects, appropriate procedures, and principles of non-discriminatory evaluation

Selection, administration, and interpretation of data from various forms of assessment, and interpretation of reports from specialized service providers

Measurement theory and practice, including issues of validity, reliability, norming, and bias

How to enable the participation of students with disabilities in all local and statewide assessments through accommodation and/or alternative assessment methods

Disabilities, Specialized Instruction, and Interventions:

Characteristics of the disabilities stipulated in state law, and impacts of these disabilities on an individual's educational performance

A wide variety of developmentally-appropriate, research-based specialized curricula, instructional practices, and curriculum-based assessments to enable students with disabilities to progress in the general education curriculum

Strategies for proactive and nonaversive behavior management

5440-82 Special Educator (Cont'd)

Foundations of Basic Skill Areas:

Development of Oral Language and Literacy – Processes, principles, and dimensions of oral language acquisition; the relationship between oral language development and literacy development; the impact of physical, emotional, and cultural factors on language development and the acquisition of reading and writing; role of metacognition in language and literacy development; elements of effective, age-appropriate verbal and non-verbal communication

Language and Word Study – The purposes of language; the phonemic, morphemic, semantic, syntactic, and pragmatic systems of language and their relationship to the reading and writing process; the pronunciation of English phonemes and their graphemes; the developmental progression of phonological awareness; vocabulary development and its relationship to literacy acquisition; the developmental stages of spelling and morphological analysis

Second Language Issues – The process of second language acquisition, challenges second language issues pose to student reading and writing development, and distinctions between language learning issues and learning disabilities

Reading Comprehension and Fluency – Reading as the process of constructing meaning from text; the components of fluency; factors that influence comprehension and fluency; typical elements and features of narrative and expository texts, and how readers' awareness of these features supports comprehension; cognitive strategies and instructional approaches for supporting comprehension and fluency

Written Expression – The continuum of writing development; the composing processes that writers use, and planning strategies most appropriate for particular kinds of writing; dimensions of quality writing and types of writing; the conventions of written English; uses of writing portfolios, and benchmarks and standards for various ages/grade levels

Numeracy – The continuum of development of mathematical thinking, particularly in the areas of mathematical quantification, calculation, and reasoning

Behavior – Typical and atypical social/emotional, psychological, and cognitive development as they relate to behavioral development

Motor Skills – Typical and atypical sensory and motor development; functioning issues associated with various common disabling conditions; relationship of sensory and motor functioning to learning, classroom behaviors, and demonstration of competence in academic and non-academic tasks

Performance Standards:

5440-82 Special Educator (Cont'd)

Working in collaboration with teachers, parents/caregivers, the student, and other professional and paraprofessional personnel, the Special Educator implements and case manages individual educational programs for students with special needs, including identifying and implementing accommodations in order to support inclusion and providing direct instructional services, in order to enable students with special needs to meet Vermont's learning expectations for students. In addition, the Special Educator develops and evaluates Individual Education Programs (IEP) and provides comprehensive evaluation services with professional and technical assistance from the Consulting Teacher or Director of Special Education. Specifically, the educator:

Foundations:

Advocates for the particular needs of students with Individual Education Programs and for an effective, comprehensive system of support services for all students

Adheres to ethical and professional standards, and state and federal legal and regulatory requirements pertaining to the education of students identified as having special needs

Program Development, Consultation, and Collaboration:

Works cooperatively and respectfully with all families to support and enhance student's learning and development, including using collaboration skills to foster respectful and beneficial relationships with parents and to encourage their participation in decision making and planning within IEP and EPTs

Uses a variety of data and resources to develop and evaluate Individual Education Plans in a collaborative context that includes the student, his or her family, and other professional colleagues and personnel from other agencies, as appropriate

Obtains multiple perspectives on the strengths and needs of students with disabilities, and defines authentic, observable, measurable, and sequenced short- and long-term objectives and benchmarks in IEPs

Case manages individual student programs and facilitates coordinated services for students with special learning needs and their families, including using collaboration skills to work with professionals and personnel from other agencies, as appropriate, to jointly plan services for children and youth with disabilities and their families

Supports classroom teachers in accommodating students with special needs within the regular classroom by identifying, developing, or modifying instructional materials, curricula, or aspects of the classroom environment, and by modeling instructional methods and/or classroom management techniques

5440-82 Special Educator (Cont'd)

Demonstrates effective team teaching skills with teachers in general classroom settings

Assessment:

The following competencies shall be performed with the professional and technical assistance of a Consulting Teacher or Director of Special Education:

- a. Facilitates the comprehensive evaluation process, including adhering to appropriate state and federal guidelines and evaluation procedures
- b. Applies appropriate screening and assessment measures in order to identify learning difficulties and strengths, establish eligibility for special education services, and design effective individualized instruction
- c. Interprets reports from specialized service providers
- d. Incorporates the results of eligibility assessments into written evaluation reports that communicate the array of information gathered in a technically correct format that is understandable to all who must be able to use the reports

Specialized Instruction and Interventions:

Supports students to access and benefit from the general education curriculum through specialized instruction and related services

Based on assessment data, selects and implements interventions and accommodations appropriate to individual student needs

Integrates the various specialized therapeutic services into ongoing curriculum and classroom practice

Monitors and assesses the efficacy of instruction based on ongoing observation and data collection, makes adjustments to the students' learning plans based on these assessments, and provides support and feedback to classroom teachers to adjust their practice

Creates and/or modifies learning environments and interactions in order to promote self-directed learning, self-confidence, socialization, and academic achievement of students with disabilities

Develops and implements systemic and proactive procedures that address problem behavior at the building, classroom, and individual student levels

5440-82 Special Educator (Cont'd)

Uses strategies to promote maintenance and generalization of students' knowledge and skills across settings

Additional Requirements:

Bachelor's degree with a recommendation for licensure in special education, or a minimum of 21 credits in special education

A minimum of a practicum, or the equivalent, in special education at the elementary/middle (grades K-8) or middle/secondary (grade 7-age 21) instructional level, depending on the authorization sought. For the full grade K-age 21 authorization, a minimum of a practicum, or the equivalent, in special education at both the elementary/middle (grades K-8) and middle/secondary (grade 7-age 21) instructional levels is required.

5440-67 Teacher of the Blind and Visually Impaired

The holder is authorized to provide comprehensive special education services, in any public education setting, to individuals age 3 through 21 who are blind or visually impaired as defined in federal regulations pertaining to special education eligibility. The holder is authorized to provide or oversee the provision of instructional services and to collaborate with an interdisciplinary team to design, implement, and evaluate educational plans and accommodations for individuals with visual impairments.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of the implications of blindness and visual impairment for learning and development; appropriate procedures and strategies for identifying the needs and supporting the learning and development of blind or visually impaired students; and procedural and consultation/collaboration knowledge and skills essential to the effective education of blind or visually impaired students, as delineated in current national professional standards. Specifically, the educator understands:

Foundations:

The history of, and theories, philosophies, and models that provide the basis for, education of the blind or visually impaired

Typical and atypical early childhood through adult growth and development within each domain, including the tremendous variation in how individuals learn and typically develop, and the variety of economic, social, and cultural influences which affect each student's life

Current state and federal laws, regulations, and procedures governing referral; identification/evaluation; eligibility determination; Individual Education Program (IEP) development, implementation, and monitoring; and educational placement of individuals who are blind or visually impaired

Various educational placement options and how they impact a blind or visually impaired student's linguistic, academic, social, and emotional development

Professional and ethical standards of practice

Program Development:

Appropriate roles and responsibilities of teachers of the blind or visually impaired and other personnel who support the education of students who are blind or visually impaired

Principles and practices of effective collaboration and consultation in learning environments

5440-67 Teacher of the Blind and Visually Impaired (Cont'd)

Principles of family-centered practice

Local, state, and community services and educational alternatives that are available to support students who are blind or visually impaired and their families, including resources to help parents/guardians deal with concerns regarding educational options and communication modes/philosophies

Strategies for preparing and assisting blind or visually impaired students and their families to make effective transitions from program to program and setting to setting

Assessment:

The components of an appropriate evaluation for eligibility, placement, and program planning decisions for students who are blind or visually impaired, and interpretation of assessment results

Specialized terminology used in the assessment of blind or visually impaired students

Measurement theory and practice, including issues of validity, reliability, norming, and bias

The impact of blindness or visual impairment on the results of other forms of assessment (e.g., psychosocial, cognitive, or vocational)

Blindness/Visual Impairments and Interventions:

The human visual system and related diseases and disorders of the human visual system, including the impact of medications on the visual system

The potential implications of blindness or visual impairment for sensory, cognitive, communicative, physical/motor, behavioral, social/emotional development, and independence

The impact of multiple disabilities on the student who is blind or visually impaired

The interaction of primary language, culture, and familial background with the blind or visually impaired student's disability, including the effects of visual impairment on the individual's family and the reciprocal impact on the individual's self-esteem

How etiology, age of onset, and degree of vision loss may impact a student's ability to learn

How other senses compensate when there is an impairment in one or more senses

The importance of blind or visually impaired students achieving age-appropriate levels of literacy and academic achievement

5440-68 Teacher of the Blind and Visually Impaired (Cont'd)

Instructional strategies, devices, and accommodations that support the learning of individuals who are blind or visually impaired in all educational settings

Instructional methods for teaching disability-unique core skills (e.g., Braille, assistive technology skills, and daily living and social skills)

The value of pairing blind or visually impaired students with role models and/or peers who have similar visual impairments

Performance Standards:

Working in collaboration with the student, his or her family, and other school personnel and consultants, the Teacher of the Blind helps to determine eligibility for educational services; helps to develop, implement, and evaluate educational programs for blind or visually impaired students; identifies and implements accommodations to learning materials or environments in order to support inclusion; and provides direct instructional services, in order to enable students who are blind or visually impaired to meet Vermont's learning expectations for students. Specifically, the educator:

Foundations:

Advocates for appropriate services to meet the individual needs of students who are blind or visually impaired

Adheres to ethical and professional standards, and state and federal legal and regulatory requirements pertaining to the education of students who are blind or visually impaired

Program Development:

Works cooperatively and respectfully with all families to support and enhance students' learning and development

Advocates that multiple factors be considered in the development of educational plans for students who are blind or visually impaired: (e.g., severity of visual impairment and potential for using residual vision, independent living needs, and social and emotional needs)

Facilitates the coordination of support personnel to meet the needs of blind or visually impaired students

Supports students and families as they transition between and among settings and programs

Assessment:

5440-69 Teacher of the Blind and Visually Impaired (Cont'd)

Selects and administers appropriate assessments and instruments for the purposes of determining eligibility for special education services, developing and implementing instruction, and evaluating student performance over time

Gathers and interprets information about academic background, medical and family history, and eye reports as they relate to the student's visual status

Participates in the planning, implementation, and evaluation of assessment accommodations which enable participation of students who are blind or visually impaired in local and statewide assessment systems

Interprets, synthesizes, summarizes, and effectively communicates assessment information in written reports that are understandable by all who use them

Blindness/Visual Impairments and Interventions:

Identifies levels of language and literacy development and designs lessons that are appropriate in relation to students' academic needs, developmental age, and type/degree of visual impairment, including assisting special educators in the planning and implementation of instruction for blind or visually impaired students who have multiple disabilities and special needs

Enhances learning through the use of tactile and auditory materials and experiential activities

Designs a classroom environment to maximize opportunities for students' auditory, visual, and tactile learning

Uses resources, materials, and techniques that promote academic learning (e.g., Braille, large print, magnifiers, adaptive devices)

Collaborates with other educators in accommodating blind or visually impaired students by identifying, developing, or modifying educational materials or curricula, aspects of the classroom environment, or assistive devices, and by modeling teaching and/or classroom management techniques

Provides information and training to help parents understand the impact of a visual impairment on all areas of their child's life

Additional Requirements:

Completion of a bachelor's level teacher preparation program in the education of the blind or visually impaired, or a minimum of 30 credits in the education of the blind or visually impaired
A minimum of a practicum, or the equivalent, in the teaching of students who are blind or visually impaired

5440-68 Teacher of the Deaf and Hard of Hearing

The holder is authorized to provide comprehensive special education services, in any public education setting, to individuals age 3 through 21 who are Deaf or hard of hearing as defined in federal regulations pertaining to special education eligibility. The holder is authorized to provide or oversee the provision of instructional services and to collaborate with an interdisciplinary team to design, implement, and evaluate educational plans and accommodations for individuals who are Deaf or hard of hearing.

In order to qualify for this endorsement, the candidate must demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of the implications of Deafness and hearing loss for learning and development; appropriate procedures and strategies for identifying the needs and supporting the learning and development of Deaf or hard of hearing students; and procedural and consultation/collaboration knowledge and skills essential to the effective education of Deaf or hard of hearing students, as delineated in current national professional standards. Specifically, the educator understands:

Foundations:

The history of, and theories, philosophies, and models that provide the basis for, education of the Deaf or hard of hearing

Typical and atypical early childhood through adult growth and development within each domain, including the tremendous variation in how individuals learn and typically develop, and the variety of economic, social, and cultural influences which affect each student's life

Current state and federal laws, regulations, and procedures governing the referral; identification/evaluation; eligibility determination; IEP development, implementation, and monitoring; and educational placement of individuals who are Deaf or hard of hearing

Various educational placement options and how they impact a Deaf or hard of hearing student's cultural identity and linguistic, academic, social, and emotional development

Professional and ethical standards of practice

Program Development:

Appropriate roles and responsibilities of teachers of the Deaf or hard of hearing and other personnel who support the education of students who are Deaf or hard of hearing

Principles and practices of effective collaboration and consultation in learning environments

Principles of family-centered practice

5440-68 Teacher of the Deaf and Hard of Hearing (Cont'd)

Local, state, and community services and educational alternatives that are available to support students who are Deaf or hard of hearing and their families, including resources to help parents/guardians deal with concerns regarding educational options and communication modes/philosophies

Strategies for preparing and assisting Deaf or hard of hearing students and their families to make effective transitions from program to program and setting to setting

Assessment:

The components of an appropriate evaluation for eligibility, placement, and program planning decisions for students who are Deaf or hard of hearing, and interpretation of assessment results

Specialized terminology used in the assessment of Deaf or hard of hearing students

Measurement theory and practice, including issues of validity, reliability, norming, and bias

The impact of deafness or hearing loss on the results of other forms of assessment (e.g., psychosocial, cognitive, or vocational)

Deafness/Hearing Loss and Interventions:

The characteristics of hearing loss and its potential implications for sensory, cognitive, communicative, physical, behavioral, social, and emotional development

The impact of multiple disabilities on the student who is Deaf or hard of hearing

The interaction of primary language, culture, and familial background with the Deaf or hard of hearing student's disability, including the effects of hearing loss on the individual's family and the reciprocal impact on the individual's self-esteem

How etiology, age of onset, and degree of hearing loss may impact a student's language development and the ability to learn

The use of a multi-sensory approach when one or more senses are impaired

The process of language acquisition, including second language acquisition, for students whose native language is American Sign Language (ASL)

The importance of Deaf or hard of hearing students achieving age-appropriate levels of literacy and academic achievement

Languages or communication methods appropriate to students who are Deaf or hard of hearing

5440-68 Teacher of the Deaf and Hard of Hearing (Cont'd)

Instructional strategies, devices, and accommodations that support language development and/or communication in all modalities

The value of pairing Deaf or hard of hearing students with role models and/or peers who have similar hearing loss and a Deaf cultural perspective, when appropriate

Performance Standards:

Working in collaboration with teachers, parents/caregivers, the student, and other professional and paraprofessional personnel, the Teacher of the Deaf assists in the determination of eligibility for special education services; develops, implements, may case manage, and evaluates individual educational programs for students who are Deaf or hard of hearing; identifies and implements accommodations to learning materials or environments in order to support inclusion; and provides direct instructional services, in order to enable students who are Deaf or hard of hearing to meet Vermont's learning expectations for students. Specifically, the educator:

Foundations:

Advocates for appropriate services to meet the individual needs of students who are Deaf or hard of hearing

Adheres to ethical and professional standards, and state and federal legal and regulatory requirements pertaining to the education of students who are Deaf or hard of hearing

Program Development:

Works cooperatively and respectfully with all families to support and enhance students' learning and development

Advocates that multiple factors be considered in the development of educational plans for students who are Deaf or hard of hearing (e.g., communication needs, the student and family's preferred mode of communication and/or cultural linguistic preference, the potential for using residual hearing, and academic level)

Facilitates the coordination of support personnel to meet the communication needs of Deaf or hard of hearing students

Supports students and families as they transition between and among settings and programs

Assessment:

5440-68 Teacher of the Deaf and Hard of Hearing (Cont'd)

Selects and administers appropriate assessment tools using the preferred language of the student for the purposes of determining eligibility for special education services, developing and implementing instruction, and evaluating student performance over time

Gathers and analyzes appropriate communication samples from students that reflect nonverbal and linguistic skills

Participates in the planning, implementation, and evaluation of assessment accommodations which enable participation of students who are Deaf or hard of hearing in local and statewide assessment systems

Interprets, synthesizes, summarizes and effectively communicates assessment information in written reports that are understandable by all who use them

Deafness/Hearing Loss and Interventions:

Identifies levels of language and literacy development and designs lessons that are appropriate in relation to students' academic needs, developmental age, and degree of hearing loss, including assisting special educators in the planning and implementation of instruction for Deaf or hard of hearing students who have multiple disabilities and special needs

Enhances learning through the use of visual materials and experiential activities

Designs a classroom environment to maximize opportunities for students' visual and/or auditory learning

Prepares students for the appropriate use of interpreters

Uses languages, resources, materials, and techniques that promote effective instructional communication (e.g., total communication, cued speech, ASL, aural/oral, hearing aids, cochlear implants, augmentative and assistive equipment, FM systems, and closed caption)

Maintains and/or advocates for a learning environment that facilitates the services of the interpreter, note takers, and other support personnel

Collaborates with other educators in accommodating Deaf or hard of hearing students by identifying, developing, or modifying educational materials or curricula, aspects of the classroom environment, or assistive devices, and by modeling teaching and/or classroom management techniques

Supports and/or trains family members and other communication partners of students who are Deaf or hard of hearing in techniques and/or strategies to enhance their communication effectiveness

5440-68 Teacher of the Deaf and Hard of Hearing (Cont'd)

Additional Requirements:

Completion of a bachelor's level teacher preparation program in Deaf education *and* 30 credits in a related field (e.g., education, speech and language, communication, psychology, audiology, or an academic content area), or a Master's degree in Deaf education

A minimum of a practicum, or the equivalent, in the teaching of students who are Deaf or hard of hearing

5440-37 Theater Arts

The holder is authorized to teach theater arts in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Knowledge of dramatic literature from Greek classics to contemporary works, including non-western forms; knowledge of theater history, including performance styles, playing spaces, audience, and production styles; and knowledge of literary and character analyses

Knowledge of aesthetic theory including an awareness of drama as a fundamental expression of human communication and emotion

Knowledge of:

- a. acting styles, theories and techniques;
- b. skills associated with physical theater and stagecraft such as set design, costuming, and make-up; and
- c. the fundamentals of speech such as articulation and production

Knowledge of developmental stages of children and how to apply appropriate teaching methods to help children perceive and express themselves and interpret their thoughts and feelings through a medium in the performing arts, and to appreciate the role of the performing arts in their lives

Knowledge of divergent approaches essential to fostering the creative process

Performance Standards:

Ability to motivate students and develop their appreciation of music, dance, or drama

Ability to teach, demonstrate and/or practice the following:

- a. dramatic literature; acting styles, theories and techniques; as well as the fundamentals of speech
- b. skills associated with physical theater and stagecraft
- c. organize a comprehensive theater curriculum within the school context including planning, direction, promotion, and production

Ability to develop students' unique capabilities through teaching the basic principles of music, dance, or drama, and through rigorous practice in that medium

Ability to arrange and adapt the curriculum and experiences to meet the needs and abilities of students

5440-37 Theater Arts (Cont'd)

Additional Requirements:

Experience with teaching a performing art to individuals, small groups, and large groups

Demonstrated expertise in acting, directing, and the production of live or recorded theatrical performances
